

Service Manual

DV4001 /N1B/N1S/U1B

DVD Player

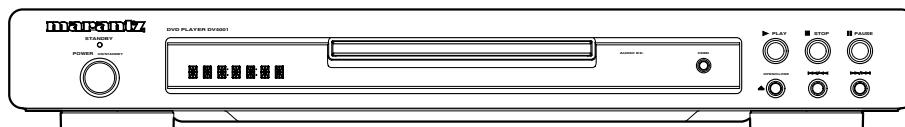


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Please use this service manual with referring to the user guide (D.F.U.) without fail.
修理の際は、必ず取扱説明書を準備し操作方法を確認の上作業を行ってください。

marantz®

DV4001

Part no. 90M20CW855010
First Issue 2006.09
MZ

MARANTZ DESIGN AND SERVICE

Using superior design and selected high grade components, **MARANTZ** company has created the ultimate in stereo sound. Only original **MARANTZ** parts can insure that your **MARANTZ** product will continue to perform to the specifications for which it is famous.

Parts for your **MARANTZ** equipment are generally available to our National Marantz Subsidiary or Agent.

ORDERING PARTS :

Parts can be ordered either by mail or by Fax.. In both cases, the correct part number has to be specified.

The following information must be supplied to eliminate delays in processing your order :

1. Complete address
2. Complete part numbers and quantities required
3. Description of parts
4. Model number for which part is required
5. Way of shipment
6. Signature : any order form or Fax. must be signed, otherwise such part order will be considered as null and void.

USA

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CHINA

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ROOM.506 SHANGHAI LIGHT INDUSTRY MANSION
1578 NANJING (WEST) ROAD SHANGHAI
CHINA
TEL : 021 - 6248 - 1064
FAX : 021 - 6248 - 3565

SHOCK, FIRE HAZARD SERVICE TEST :

CAUTION : After servicing this appliance and prior to returning to customer, measure the resistance between either primary AC cord connector pins (with unit NOT connected to AC mains and its Power switch ON), and the face or Front Panel of product and controls and chassis bottom.

Any resistance measurement less than 1 Megohms should cause unit to be repaired or corrected before AC power is applied, and verified before it is return to the user/customer.

Ref. UL Standard No. 1492.

In case of difficulties, do not hesitate to contact the Technical Department at above mentioned address.

1. TECHNICAL SPECIFICATIONS

General

System..... DVD-Video, DVD±R/RW, Video CD, CD, MP3 files, JPEG files, DviX and WMA

Power requirements
 N Version.....AC 230 V, 50/60 Hz
 U Version.....AC 120 V, 60 Hz

Power consumption9 W
 Power consumption in standby mode.....0.6 W

Weight 4 kg (8 lb 13 oz)

Dimensions..... 440 (W) x 60 (D) x 319 (H) mm
 (17.3 (W) x 2.4 (D) x 12.6 (H) in.)

Operating temperature ... + 5 °C to + 35 °C (+ 41 °F to + 96 °F)
 Operating humidity5 % to 85 % (no condensation)

S-Video output

Y (luminance) - Output level 1 Vp-p (75)
 C (color) - Output level..... 286 mVp-p (75)
 JacksS-VIDEO jack

Video output

Output level..... 1 Vp-p (75)
 Jacks RCA jack

Component video output (Y, C_B, C_R)

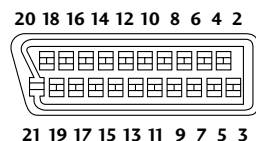
Output level..... Y : 1.0 Vp-p (75)
 C_B/P_B, C_R/P_R : 0.7 Vp-p (75)
 Jacks RCA jack

HDMI output

Output Terminal 19-pin

21-pin connector assignment (N : Europe model only)

AV connector output 21-pin connector
 This connector provides the video and audio signals for connection to a compatible color TV or monitor.



PIN no.		
1	Audio 2/R out	15 R out
3	Audio 1/L out	16 Blank
4	GND	17 GND
7	B out	19 Video out
8	Status	21 GND
11	G out	

Audio output

Output level (During audio output).....2 Vrms (1 kHz, 0 dB)
 Number of channels 2
 Jacks RCA jack

Audio characteristics

Frequency response4 Hz to 44 kHz (DVD fs: 96 kHz)
 S/N ratio..... 110 dB
 Dynamic range 100 dB
 Total harmonic distortion0.003 %
 Wow and flutter..... Limit of measurement
 (± 0.001 % W. PEAK) or lower

Digital output

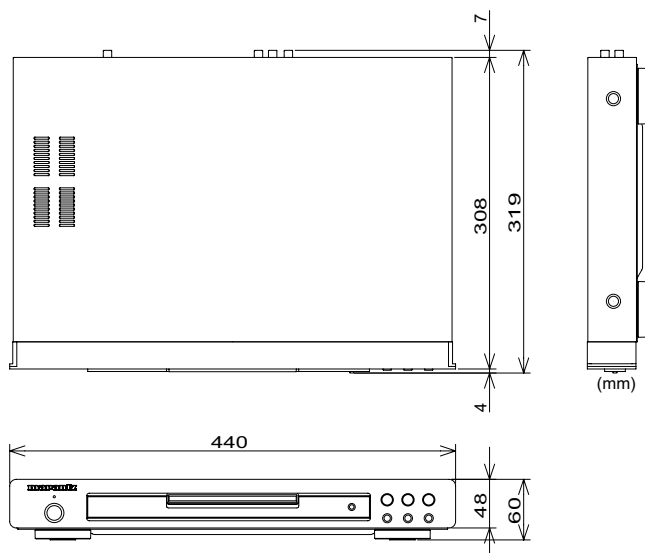
Coaxial digital output RCA jack

Other terminals

Control in/out RCA jack
 Flasher input.....Mini jack (3.5Ø)
 RS232C 1

Accessories

Remote control (RC001DV)..... 1
 AAA/R03 dry cell batteries2
 Audio/Video cable (yellow/red/white)..... 1
 System control cable 1
 Power cable 1
 User Guide 1



Features

An HDCP-compatible HDMI*¹ terminal is provided to ensure the very highest picture and digital sound quality by fully digital transmission.

This unit is equipped with an HDCP-compatible digital image output terminal (HDMI) to provide copyright protection.

Direct digital transmission without analog conversion of DVD image data makes it possible to enjoy real-life images without any image deterioration resulting from AD/DA conversion. The unit has also been designed to make it possible to handle the transmission of both digital video and digital audio with a single connector.

High quality 12-bit/108 MHz video D/A converter

The unit uses a video D/A converter that performs D/A conversion of all video signals in 12 bits and can perform 4x over-sampling to let you enjoy beautiful video possible with DVD.

High quality 24-bit/192 kHz DAC

The high specification 24-bit/192 kHz DAC delivers dynamic, smooth and expansive analog sound from CDs and DVDs.

DivX   *²

You can enjoy DivX[®] files which are recorded on DVD±R/RW or CD-R/RW.

- Official DivX[®] Ultra Certified product
- Plays all versions of DivX[®] video (including DivX[®] 6) with enhanced playback of DivX[®] media files and the DivX[®] Media Format
- This player supports Quarter Pixel.
- This player does not support GMC.

MP3 and WMA*³ compatibility

This player is compatible with CD-R, CD-RW and CD-ROM discs that contain MP3 and WMA audio tracks (see pages 27, 29).

JPEG compatibility

This player is compatible with CD-R, CD-RW and CD-ROM discs that contain JPEG data (see pages 27, 28, 29).

*¹ HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

*² “DivX”, and “DivX Ultra” Certified, and associated logos are trademarks of DivX, Inc. and are used under license.

*³ Windows Media and the Windows logo are trademarks, or registered trademarks of Microsoft Corporation in the United States and/or other countries.



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“DTS” and “DTS Digital Out” are registered trademarks of Digital Theater Systems, Inc.

Discs compatible with this player

Any disc that displays one of the following logos should play in this player. Other formats, including DVD-RAM, DVD-ROM, CD-ROM (except those that contain MP3/DivX/WMA/JPEG files) and Photo CD will not play.


DVD-Video compatibility:

- Logos: 
- Single-sided or double-sided discs
- Single layer or dual layer discs
- Dolby Digital, DTS, MPEG or Linear PCM digital audio
- MPEG-2 digital video

Discs are generally divided into one or more titles. Titles may be further subdivided into chapters.


DVD-R compatibility:

This unit can play DVD-R discs. Please note the following points when using these discs:

- Logo: 
- This unit can play DVD-R discs recorded as DVD-Video format.

DVD-RW compatibility:


This unit can play DVD-RW discs. Please note the following points when using these discs:

- Logo: 
- This unit can play DVD-RW discs recorded as DVD-Video format, and DVD-VR format.
- DVD-RW discs that were recorded with copy-once only permission can be played.

DVD+R/+RW compatibility:

- Logo: 
- This unit can play DVD+R/+RW discs. Please note the following points when using these discs.

Audio CD compatibility:

- Logos: 
- 12cm (5in.) or 8cm (3in.) discs
- Linear PCM digital audio
- Audio CD, CD-R* and CD-RW* formats


CDs are divided into tracks.

*This unit can play CD-R and CD-RW discs recorded in Audio CD or Video CD format, or with MP3 audio files or Windows Media audio files or picture files or DivX files.

*Some copy-controlled CDs may not conform to official CD standards. They are special discs and may not play on the DV4001.


*The DV4001 does not support the non-DVD side of a Dual Disc.

Video CD compatibility:

- Logo: 
- 12cm (5in.) or 8cm (3in.) discs
- MPEG-1 digital audio
- MPEG-1 digital video

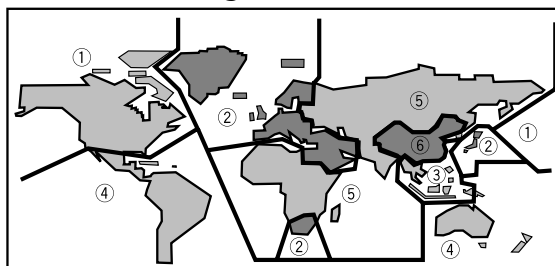
Video CDs are divided into tracks.

Super VCD compatibility:

- Logo: 
- 12cm (5in.) or 8cm (3in.) discs
- MPEG-1 digital audio
- MPEG-2 digital video

Super VCDs are divided into tracks.

DVD-Video regions



All DVD-Video discs carry a region mark on the case somewhere that indicates which region(s) of the world the disc is compatible with. Your DVD player also has a region mark, which you can find on the rear panel. Discs from incompatible regions will not play in this player. Discs marked **ALL** will play in any player.

General information

- This player can recognize in total about 650 files per folders and 300 folder per disc for MP3/DivX/WMA.
- When writing MP3/WMA/JPEG/DivX files to CD-R/RW discs, always be sure to set the writing format to ISO 9660 Level 1.
- For MP3 and WMA files recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.

MP3 compatibility information

- Files should be MPEG1 Audio Layer 3 format. The sampling rate is 11 kHz to 48 kHz, but it is depends on the bit rate. Incompatible files will not play.
- Audio encoded at 128 kbps should sound close to regular audio CD quality. Although this player will play 32 kbps to 320 kbps, but it is depends on the sampling rate.
- This player is compatible with ID3 ver.1.1 Tag.
- Maximum 30 characters can be displayed on TV screen.
- This player cannot play DVD-R/RW discs with recorded MP3 music data.
- This player only plays tracks that are named containing the file extension “.mp3” or “.MP3”.
- This player is not compatible with multi-session discs. If you try and play a multi-session disc, only the first session will be played.

WMA compatibility information

- The sampling rate is 44.1 kHz (bit rate: 64 kbps-192 kbps) and 48 kHz (bit rate: 128 kbps-192 kbps).
- This player only plays tracks that are named with the file extension “.wma” or “.WMA”.
- This player can not play the disc contents protected by Windows Media Digital Right Management (DRM).

JPEG compatibility information

- While this player is designed to be able to handle image data recorded in JPEG format, no assurances are given that the player will be able to display image data recorded in all JPEG formats.
- This player can display progressive JPEG images.
- This player can display HD JPEG images.
- Always be sure to specify a file extension of “.JPG” or “.JPEG” for JPEG files. The file will not be able to be displayed if a file extension other than “.JPG” or “.JPEG” is specified or if no file extension is assigned to the file. (Note that this means that JPEG files created on a Macintosh will not be able to be displayed as is.)
- Depending on the file size and compression ratio, some JPEG pictures cannot be displayed correctly.

DivX compatibility information

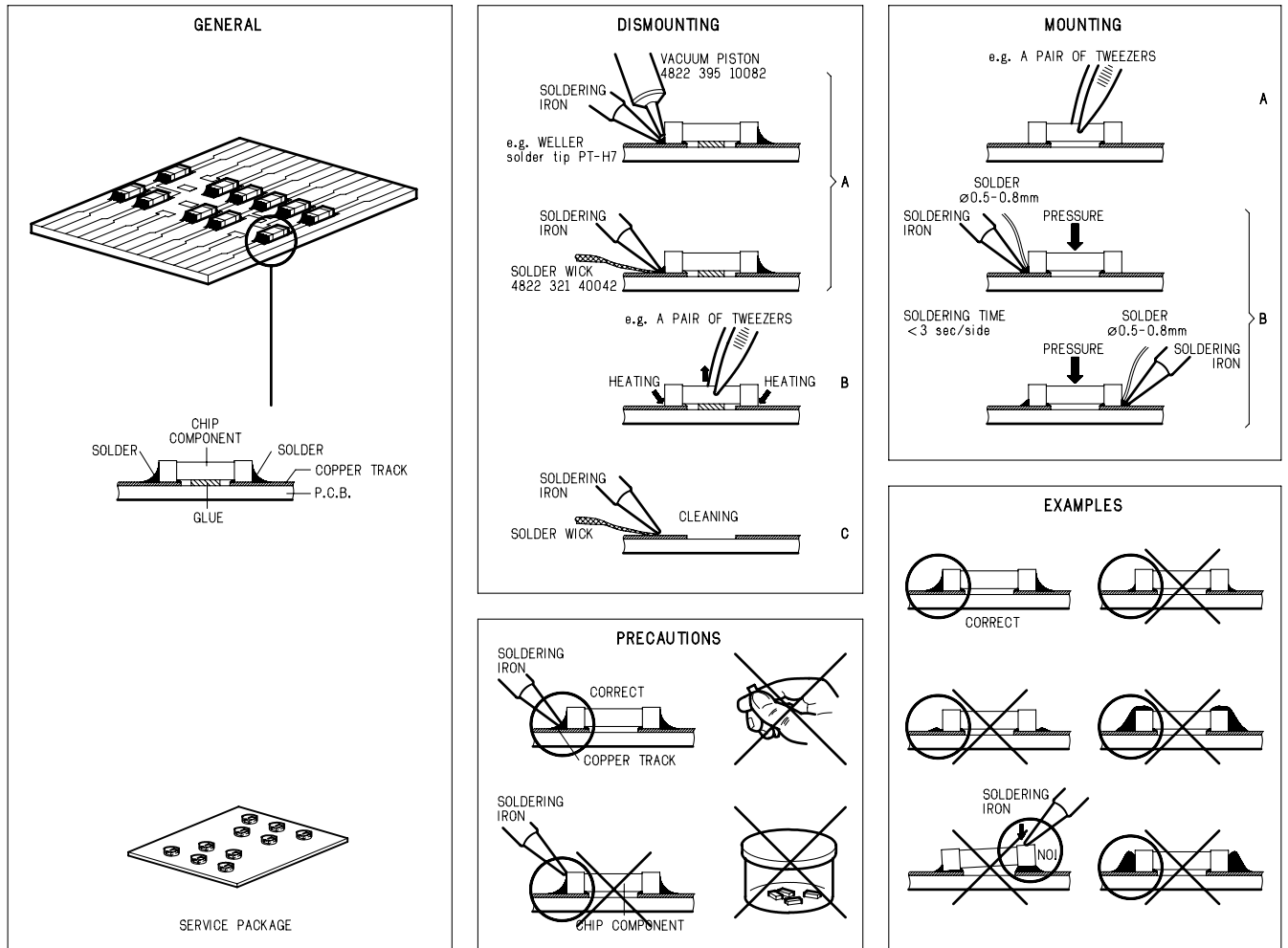
- A file with an extension of “.avi” or “.divx” is called a DivX file.
- Maximum 30 characters can be displayed on TV screen.
- Maximum 4 Gbyte of file size can be displayed.
- File should be MPEG1 Audio Layer 3 format and MPEG2 format.

Caution!

- DVD±R/RW and CD-R/RW discs recorded using a personal computer or a DVD or CD recorder may not play if the disc is damaged or dirty, or if there is dirt or condensation on the player's lens.
- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- There may be times when it is impossible to replay a CD-R/RW disc because of the characteristics of the disc being used or because of dirt or scratches on the disc.
- Unfinalized DVD-R/RW discs cannot be played.
- Unfinalized CD-R/RW discs cannot be played.
- For more information on using DVD-R/RW and CD-R/RW discs, see “Handling discs” on **page 47**.
- Never try to replay anything other than a music CD (CDA format) or a CD-R/RW on which MP3 and/or JPEG files have been stored. Depending on the type of file, there may be times when doing so will result in problems or erroneous operation.

2. SERVICE HINTS AND TOOLS

SERVICE HINTS



SERVICE TOOLS

Audio signals disc	4822 397 30184
Disc without errors (SBC444)+	
Disc with DO errors, black spots and fingerprints (SBC444A)	4822 397 30245
Disc (65 min 1kHz) without no pause	4822 397 30155
Max. diameter disc (58.0 mm)	4822 397 60141
Torx screwdrivers	
Set (straight)	4822 395 50145
Set (square)	4822 395 50132
13th order filter	4822 395 30204
DVD test disc (PAL)	4822 397 10131
DVD test disc (NTSC) ALMEDIO	TDV-540

3. WARNING AND LASER SAFETY INSTRUCTIONS

GB WARNING

All ICs and many other semi-conductors are susceptible to electrostatic discharges (ESD). Careless handling during repair can reduce life drastically.
When repairing, make sure that you are connected with the same potential as the mass of the set via a wrist wrap with resistance.
Keep components and tools also at this potential.



NL WAARSCHUWING

Alle IC's en vele andere halfgeleiders zijn gevoelig voor elektrostatische ontladingen (ESD).
Onzorgvuldig behandelen tijdens reparatie kan de levensduur drastisch doen verminderen.
Zorg ervoor dat u tijdens reparatie via een polsband met weerstand verbonden bent met hetzelfde potentiaal als de massa van het apparaat.
Houd componenten en hulpmiddelen ook op ditzelfde potentiaal.

F ATTENTION

Tous les IC et beaucoup d'autres semi-conducteurs sont sensibles aux décharges statiques (ESD).
Leur longévité pourrait être considérablement écourtée par le fait qu'aucune précaution n'est prise à leur manipulation.
Lors de réparations, s'assurer de bien être relié au même potentiel que la masse de l'appareil et enfiler le bracelet serti d'une résistance de sécurité.
Veiller à ce que les composants ainsi que les outils que l'on utilise soient également à ce potentiel.

D WARNUNG

Alle IC und viele andere Halbleiter sind empfindlich gegen elektrostatische Entladungen (ESD).
Unvorsichtige Behandlung bei der Reparatur kann die Lebensdauer drastisch vermindern.
Sorgen sie dafür, das Sie im Reparaturfall über ein Pulsarmband mit Widerstand mit dem Massepotential des Gerätes verbunden sind.
Halten Sie Bauteile und Hilfsmittel ebenfalls auf diesem Potential.

I AVVERTIMENTO

Tutti IC e parecchi semi-conduttori sono sensibili alle scariche statiche (ESD).
La loro longevita potrebbe essere fortemente ridatta in caso di non osservazione della piu grande cauzione alla loro manipolazione.
Durante le riparazioni occorre quindi essere collegato allo stesso potenziale che quello della massa dell'apparecchio tramite un braccialetto a resistenza.
Assicurarsi che i componenti e anche gli utensili con quali si lavora siano anche a questo potenziale.

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat in zijn oorspronkelijke toestand wordt terug gebracht en dat onderdelen, identiek aan de gespecificeerde worden toegepast.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten.
Der Originalzustand des Gerats darf nicht verändert werden.
Für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati pezzi di ricambio idetici a quelli specificati.

F

Les normes de sécurité exigent que l'appareil soit remis a l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne.

LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.



USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

AVOID DIRECT EXPOSURE TO BEAM

WARNING

**The use of optical instruments with this product will increase eye hazard.
Repair handling should take place as much as possible with a disc loaded inside the player**

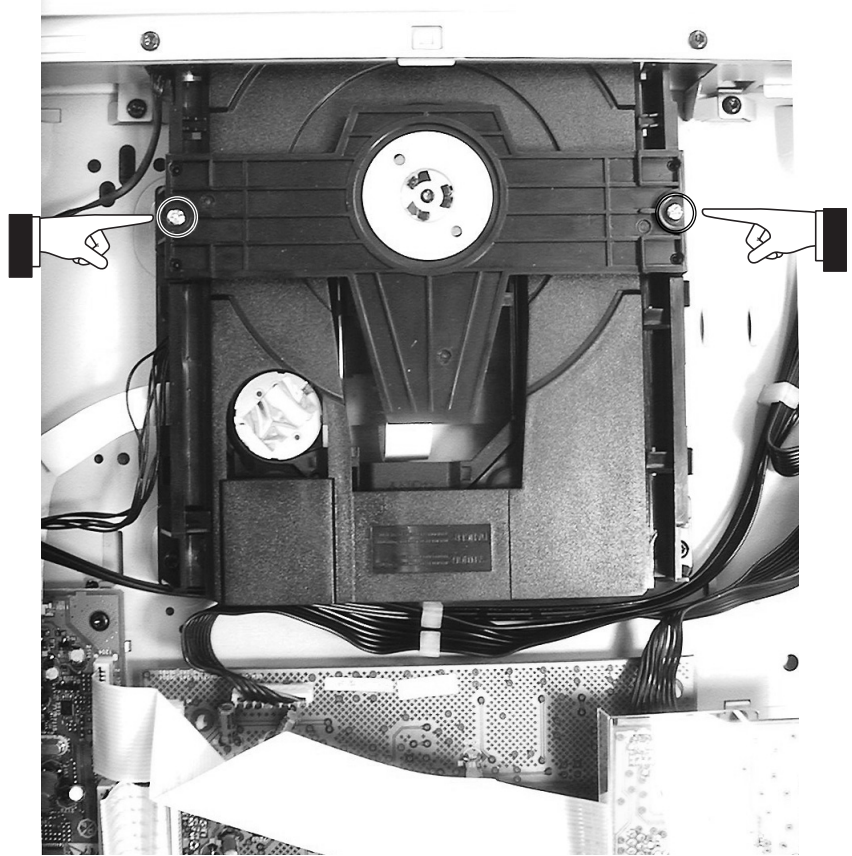
WARNING LOCATION: INSIDE ON LASER COVERSIELD

CAUTION VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID EXPOSURE TO BEAM
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING UNDGÅ UDSÆTTELSE FOR STRÅLING
ADVARSEL SYNLIG OG USYNLIG LASERSTRÅLING NÅR DEKSEL Å PNES UNNGÅ EKSPONERING FOR STRÅLEN
VARNING SYNLIG OCH OSYNLIG LASERSTRÅLNING NÅR DENNA DEL ÅR ÖPPNAD BETRakta EJ STRÅLEN
VARO! AVATT AESSA OLET ALTTIINA NÄKYVÄLLE JA NÄKYMÄTTÖMÄLLE LASER SÄTEILYLLE. ÄLÄ KATSO SÄTEESEEN
VORSICHT SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG WENN ABDECKUNG GEÖFFNET NICHT DEM STRAHL AUSSETSEN
DANGER VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AVOID DIRECT EXPOSURE TO BEAM
ATTENTION RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE EXPOSITION DANGEREUSE AU FAISCEAU

4. TAKING THE DISC OUT OF EMERGENCY

1. Remove the top cover of the player.
2. Remove 2 screws shown in the picture follows.
3. Remove the disc clumper.
4. Now you can remove the disc.

Remove those screws



5. UPDATE BACK END FIRMWARE PROCEDURE

Necessary Equipment

- Update data (DV4001.BIN) or Disc (90M-DV4001CDR).

NOTICE : Refer to "6. THE UPDATE DISC CREATION PROCEDURE", when you make update disc from update data.

Writing Procedure

The writing of firmware takes about 1 minute 30 seconds.

1. Connect the video cable to the unit and TV (or Monitor).
2. Connect the mains cord into the unit.
3. Turn on the unit and TV.
4. Press the **OPEN/CLOSE** button to open the tray.
5. Insert the Update Disc.
6. Press the **OPEN/CLOSE** button to close the tray.
7. "LOAD" is displayed on the front display. ("LOADING" is displayed on the TV.)
8. "UPGRADE FILE DETECTED" and "FILE COPING" are displayed on the TV. And next, the display on TV changes from "FILE COPING" and displays "UPGRADING".
9. Then the tray opens automatically. And remove the Update disc from the tray.
10. Firmware is written into the flash ROM.
11. FL display change from "ERASE" and displays "WRITE".
12. After that "UPG END" is displayed several seconds, and finished write-in.
13. The unit is reset automatically.
14. And the tray closes automatically.
15. Press the **POWER ON/STANDBY** button to turn off the unit.
16. Disconnect the mains cord and video cable from the unit.

Firmware Version Check

To check the versions of the firmware, see "**Firmware (Back-end) version check**" in "**8. SERVICE MODE**" section.

6. THE UPDATE DISC CREATION PROCEDURE

Necessary Equipment

- Update data (DV4001.BIN).
- CD-R or CD-RW.
- CD-R writing software.

Setting of writing software

- File name : DV4001.BIN
- CD LABEL NAME : any one
- CD MODE : MODE 1 (CLOSE SESSION)
- FILE FORMAT : ISO9660
- WRITE MODE : DISC AT ONCE

7. UPDATES RS-232C MICROPROCESSOR FIRMWARE PROCEDURE

When RS-232C microprocessor firmware was updated, update the firmware in the following procedure.

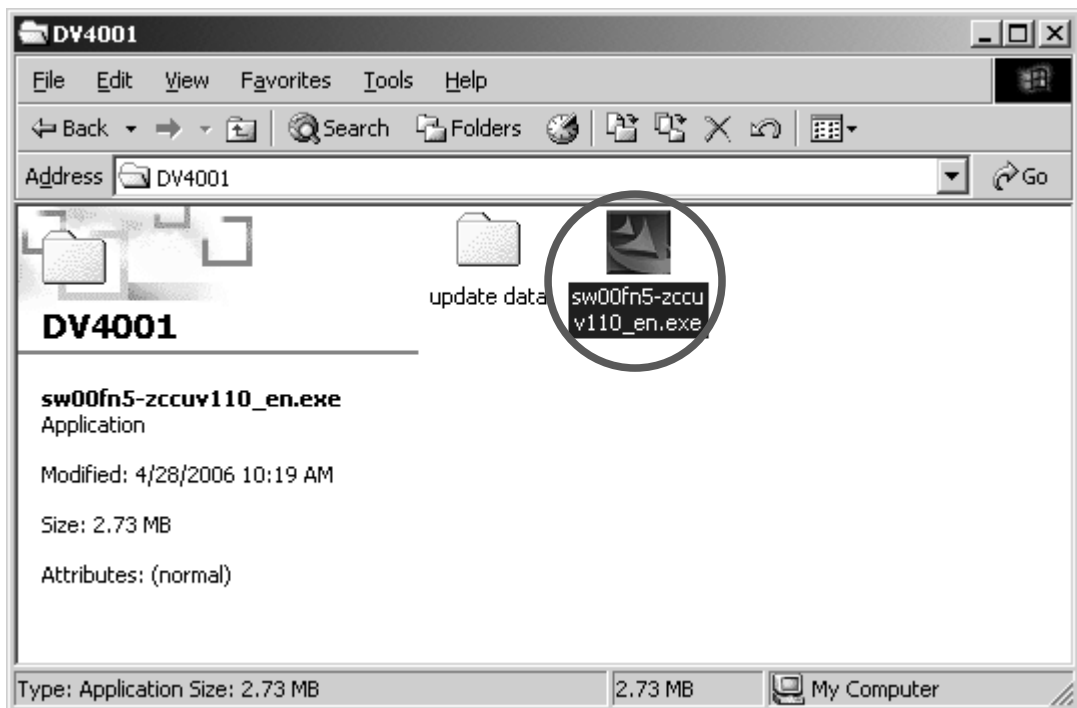
- [A] Installs of the software.
- [B] Update firmware setup procedure.
- [C] Writing Procedure.

Necessary Equipment

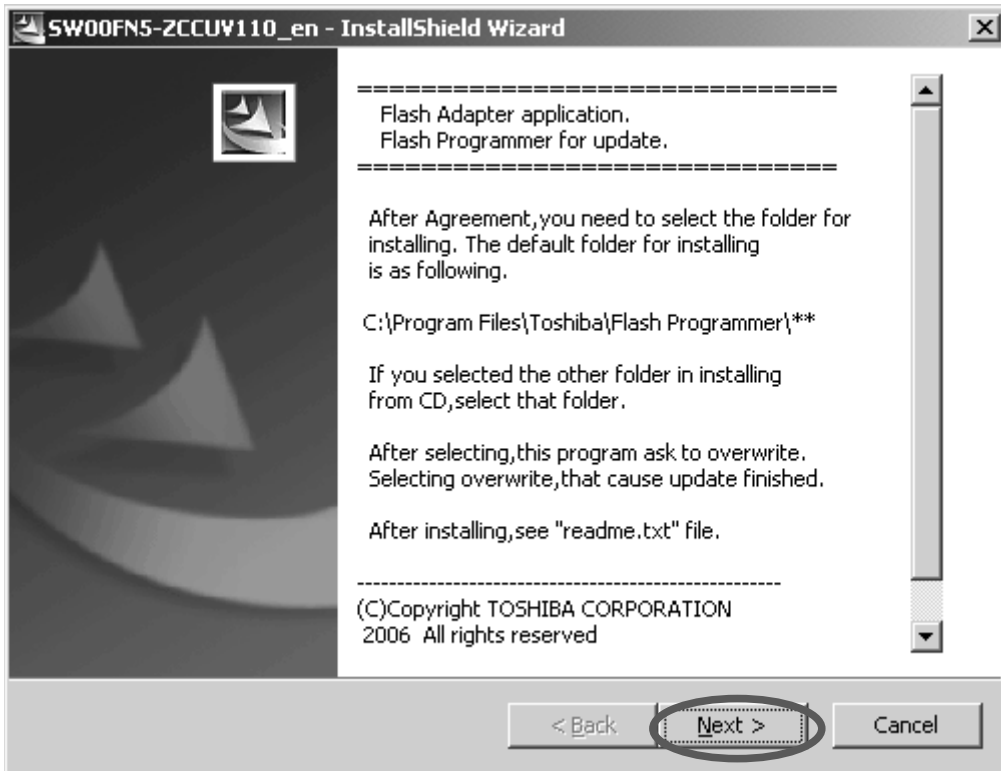
- Windows PC (OS: Windows2000 or WindowsXP) with Serial port.
 - RS-232C Dsub-9 pin cable (female to female/straight type).
 - Update tool (Flash Programmer: sw00fn5-zccuv110_en.exe).
 - Update data (Vxxx_rs232c_boad.h16).
- NOTE: Vxxx is a revision number.

[A] Installs of the software

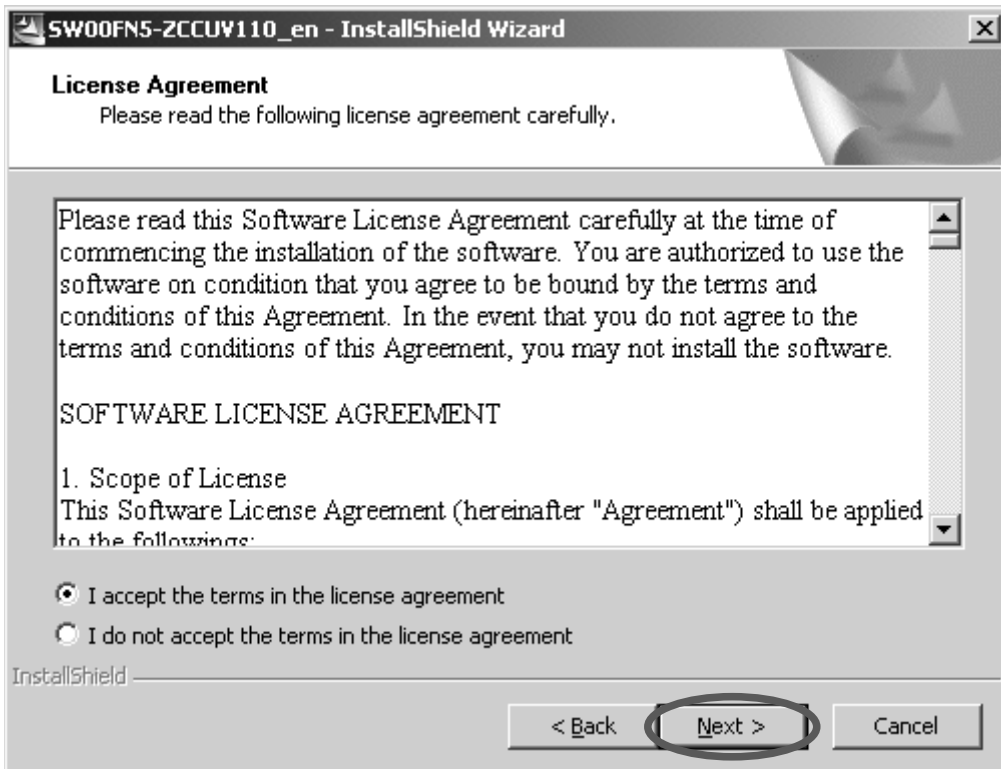
1. Double click the sw00fn5-zccuv110_en.exe, and install the Flash Programmer.



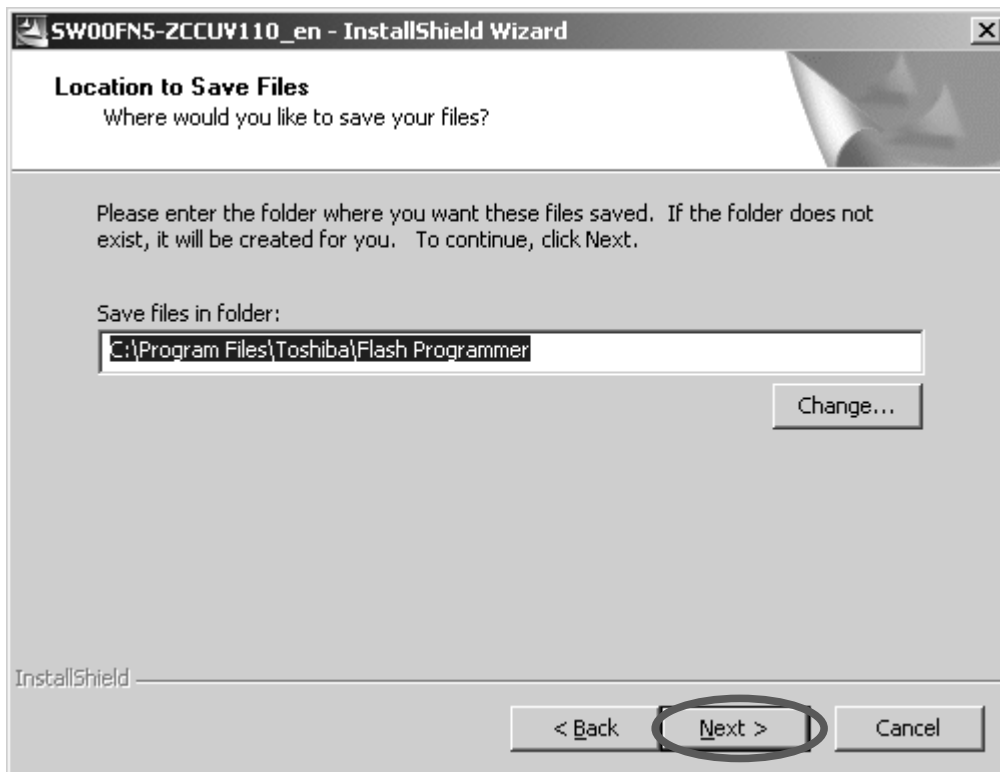
2. Click the **Next**.



3. Check the **I accept the terms in the license agreement**, and click the **Next**.



4. Click the **Next**.



5. Click the **Finish**.



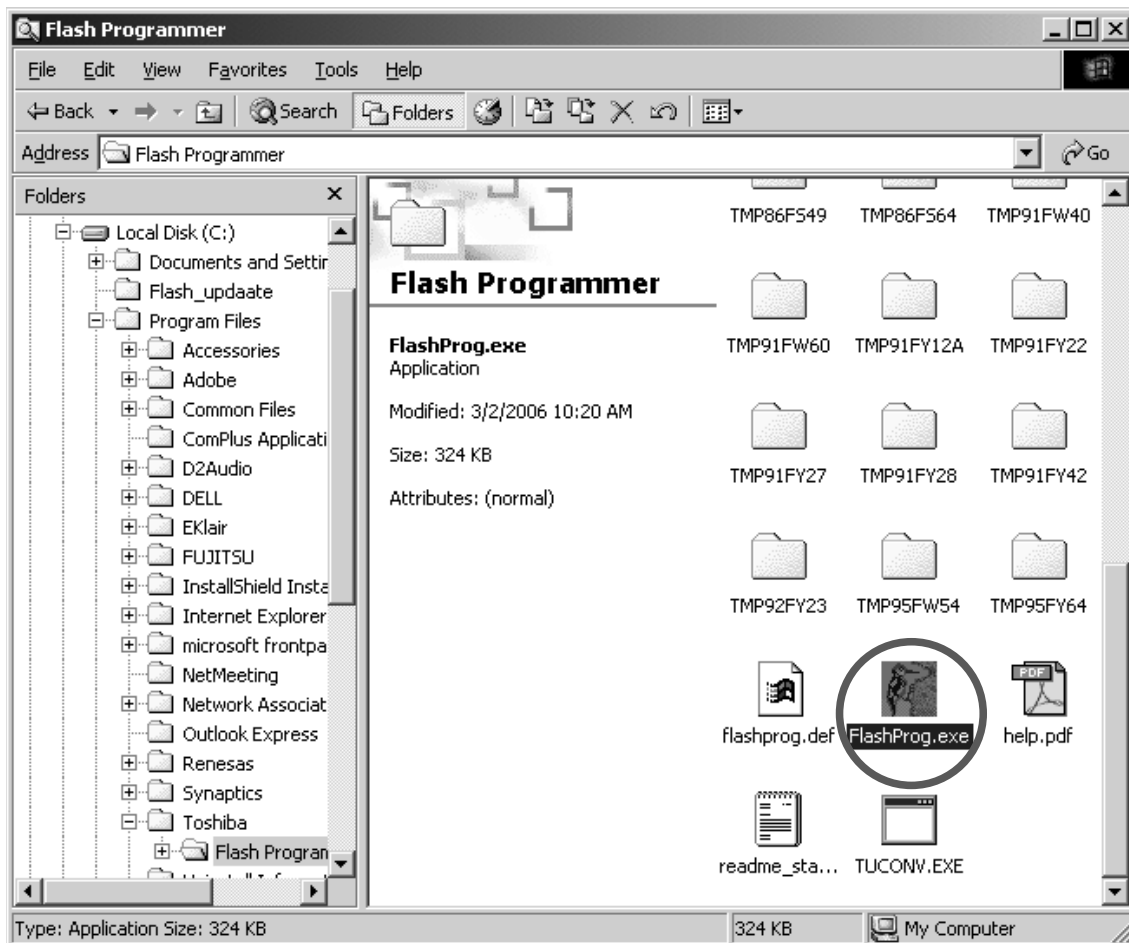
NOTE : This installation does not create short cut icon on a desktop and a startup.

[B] Update firmware setup procedure

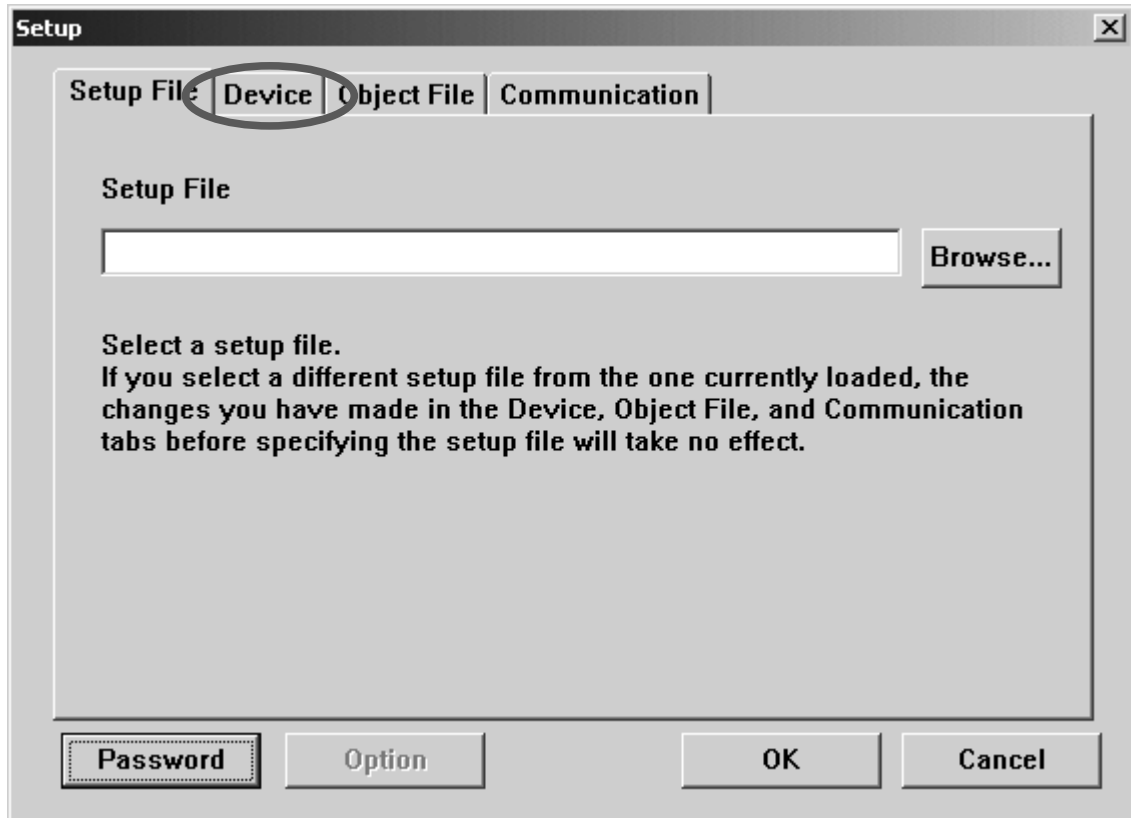
1. The right button of mouse click on the My Computer, and select the **Explore** in a menu.



2. Double click the Flashprog.exe in C:\Program Files\Toshiba\Flash Programmer folder.



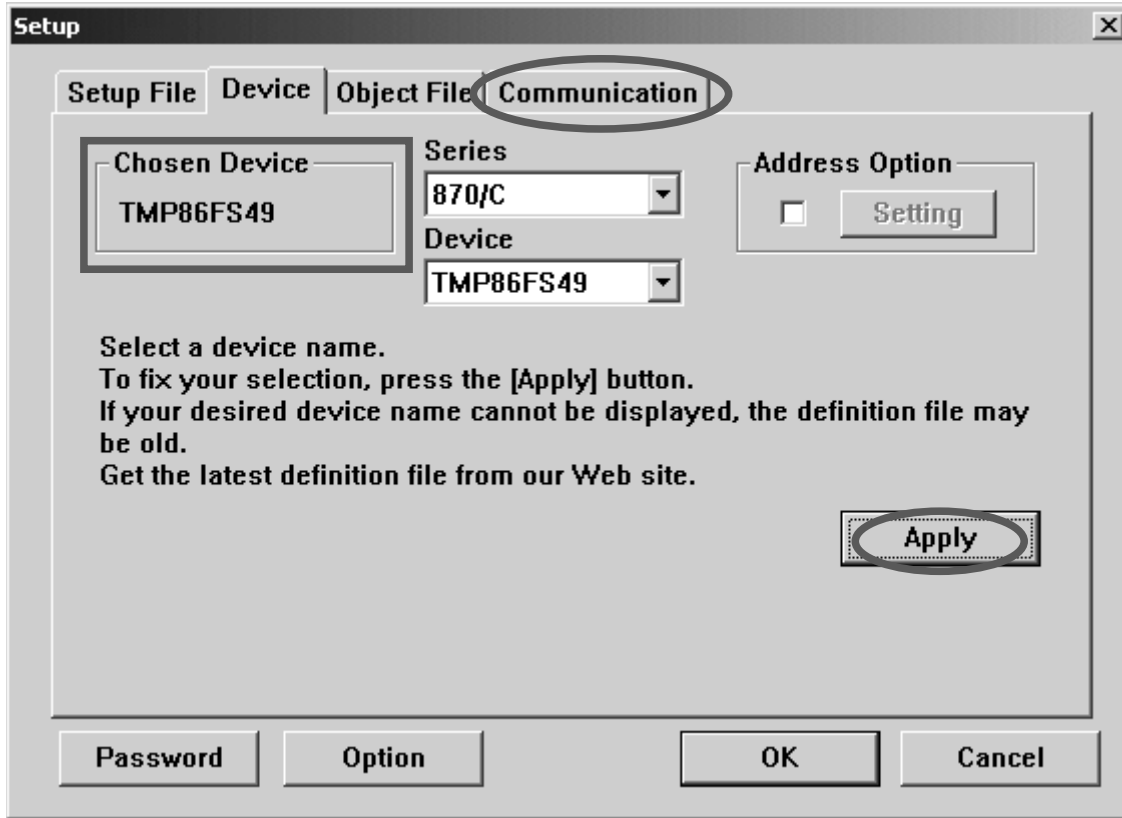
3. Setup window appears.
Click the **Device** tag.



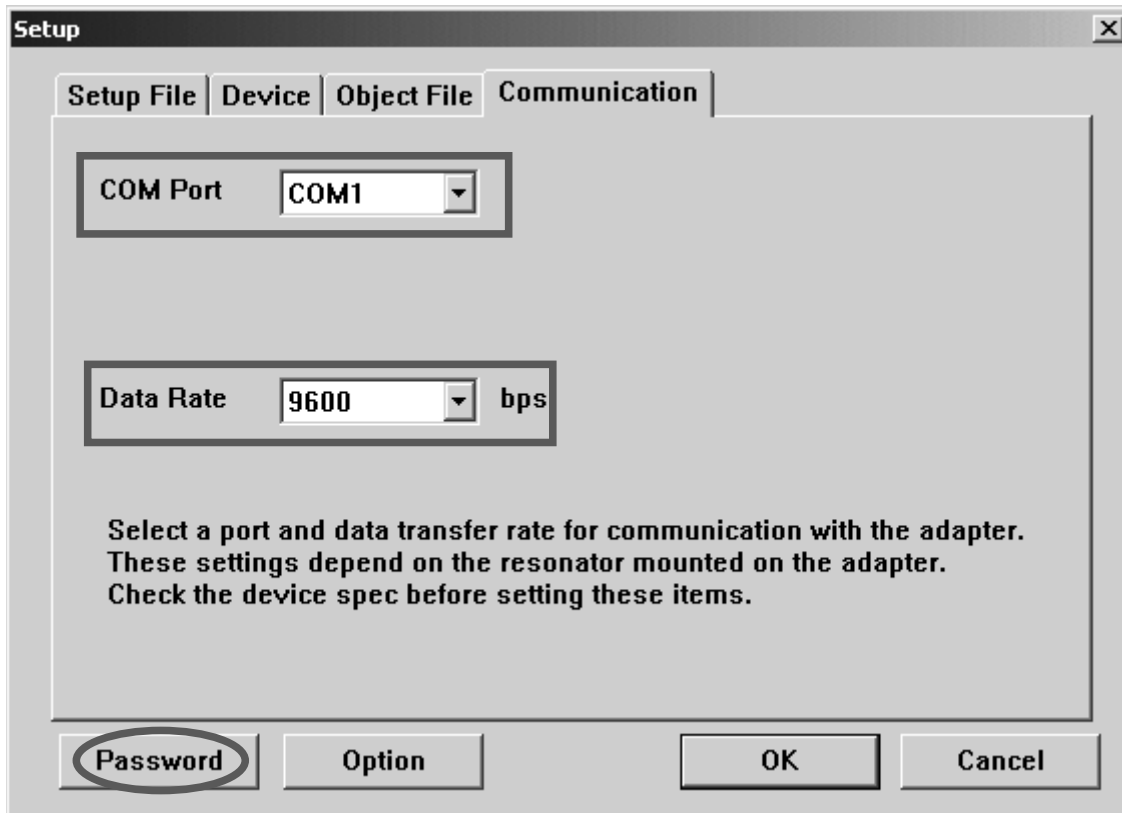
4. Choose the **870/C** in Series.
Choose the **TMP86FS49** in Device.



5. Click the **Apply**, then TMP86FS49 appears in the Chosen Device.
And click the **Communication** tag.



6. Choose the **Serial Port number** in the COM Port.
Choose the **9600** bps in the Data Rate.
And Click the **Password**.



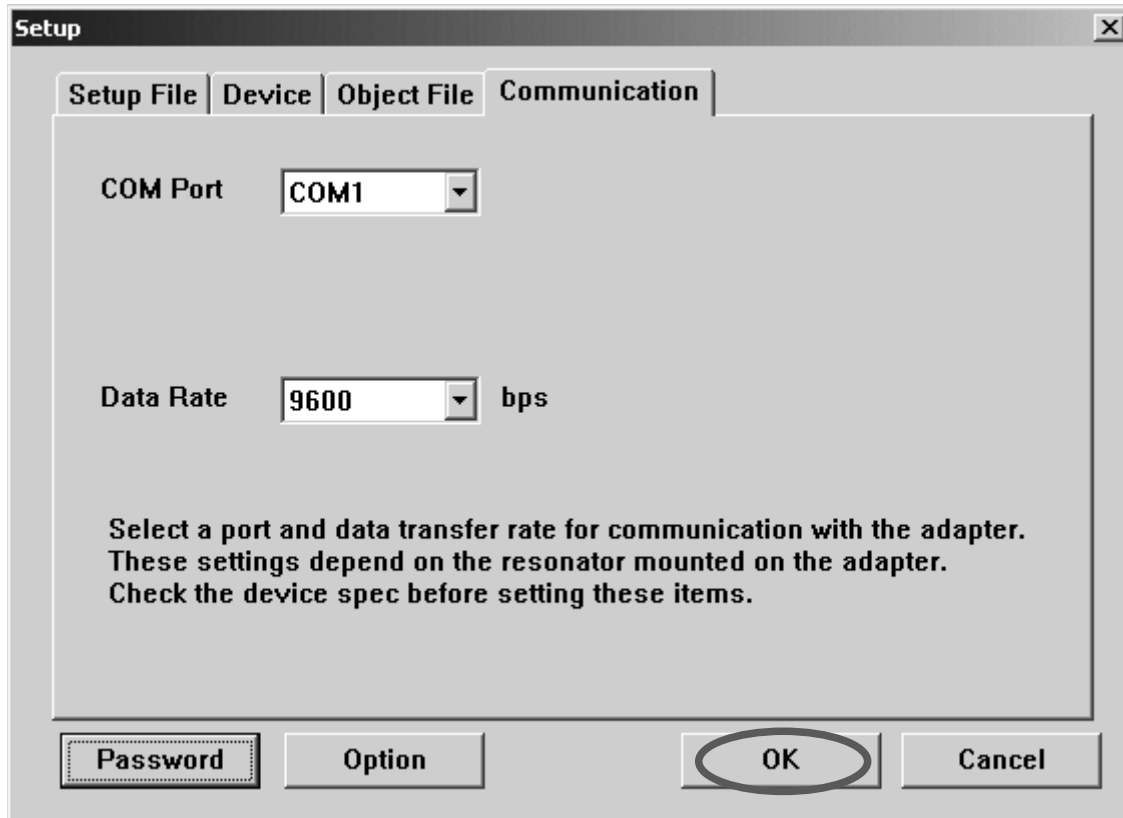
8. Setup Password appears.



9. Click the **Device is BLANK**.
Check the **Hex** in Input Type.
Type the **5468652044264d2047726f7570** into Password.
Type the **0xff00** into Password count storage address.
Type the **0xff01** into Password comparison start address.
Click the **OK**.



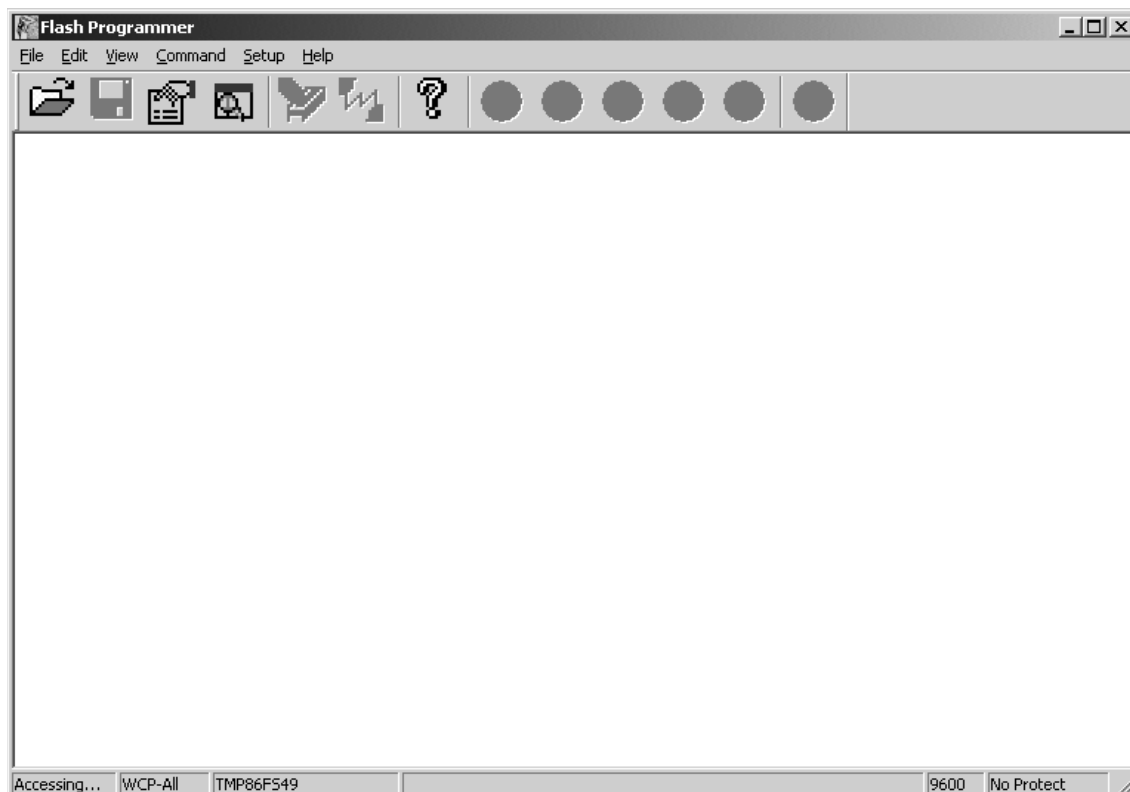
10. Click the **OK**.



[C] Writing Procedure

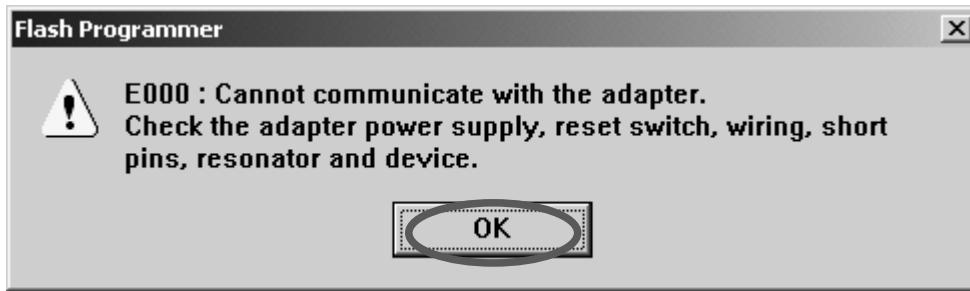
Flash Programmer starts.

1. When Flash Programmer did not start, double click the Flashprog.exe in C:\Program Files\Toshiba\Flash Programmer folder.

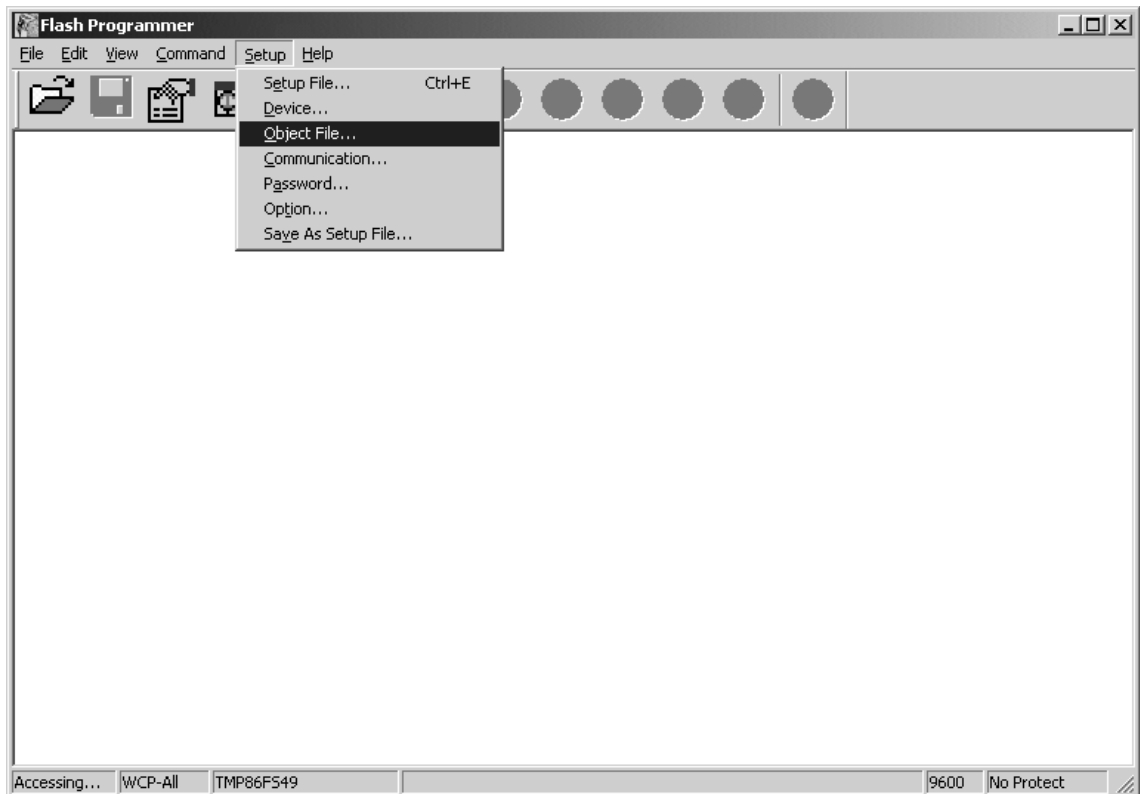


2. Click the **OK**.

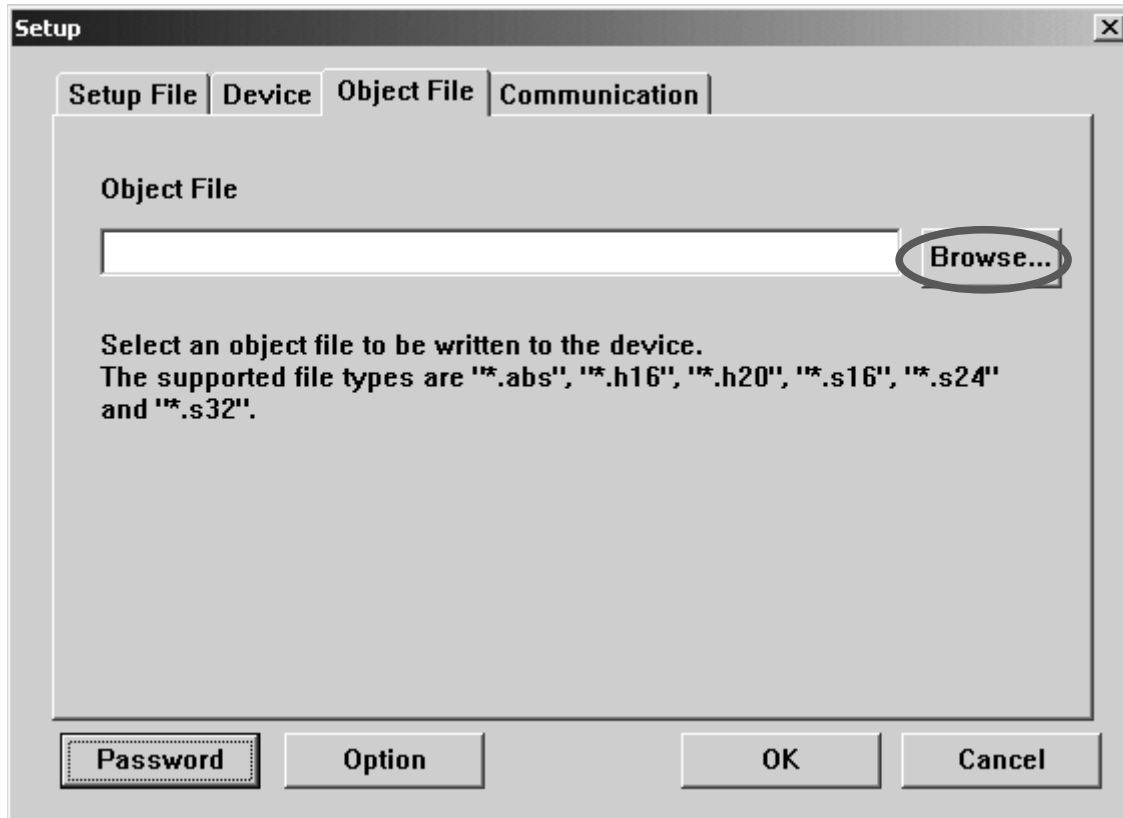
NOTE: Since Flash Programmer communicates with the unit automatically, the following dialog box appears when it fails in communication.



3. Click the **Setup** in the menu bar and select the **Object File....**

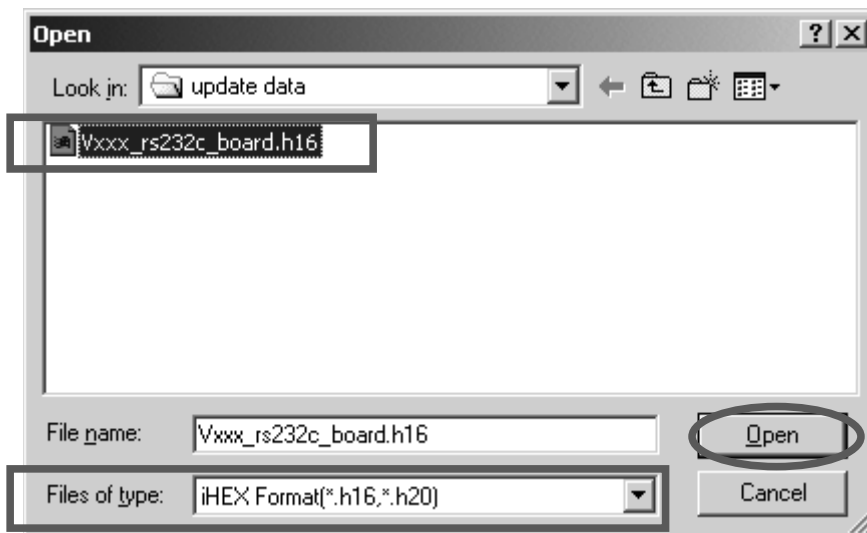


4. Click the **Browse...**

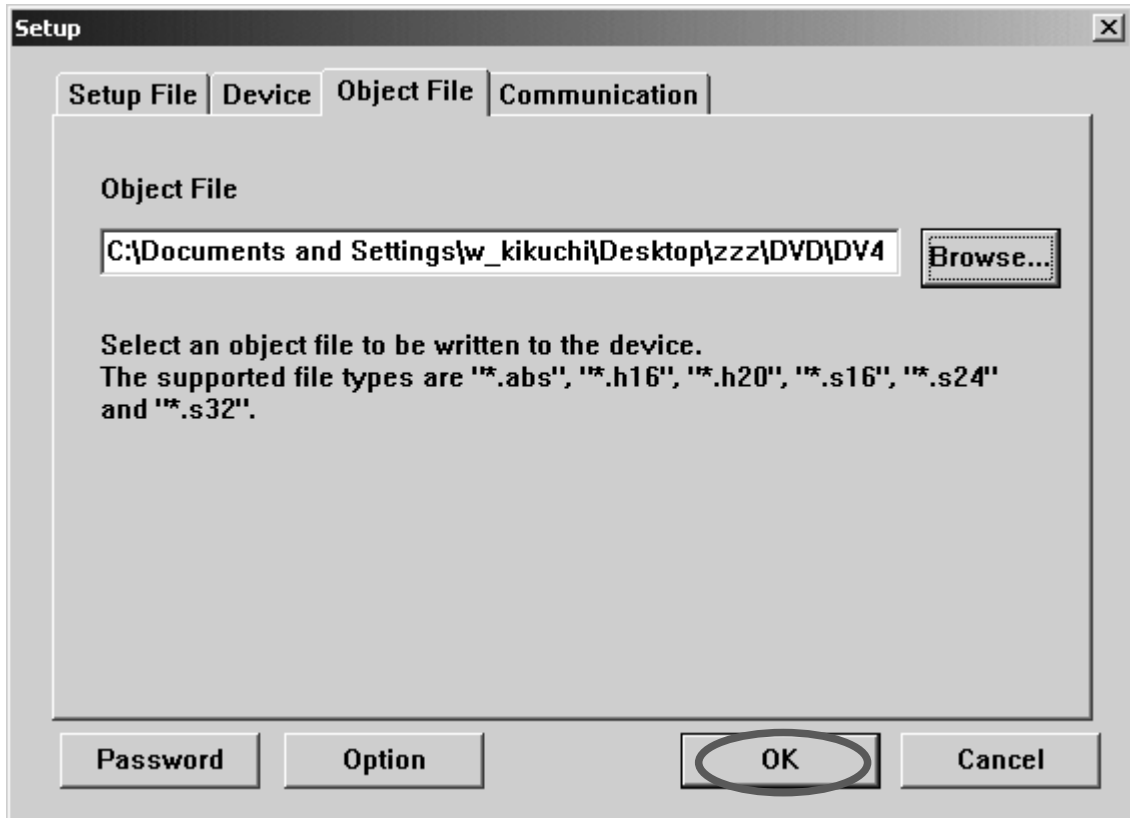


5. Choose the **iHEX Format[*h16,*h20]** in Files of type.
Choose the **Vxxx_rs232c_boad.h16**, and click the **Open**.

NOTE : The Vxxx is a revision number.



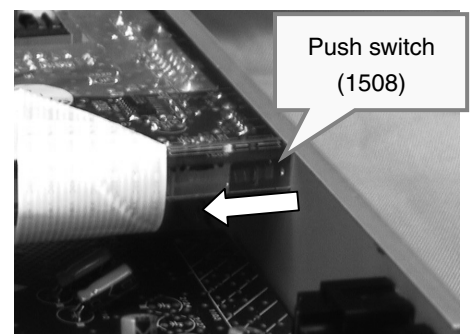
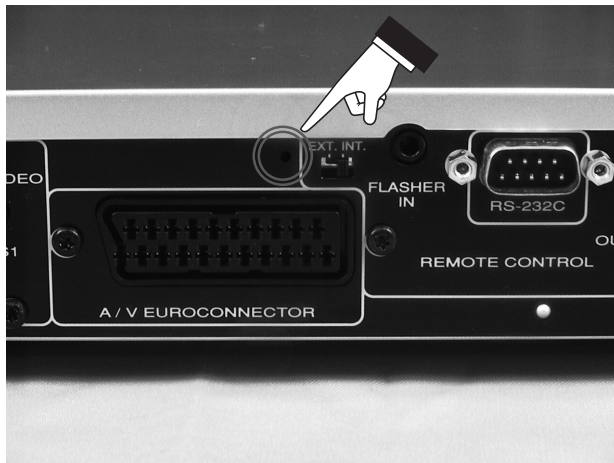
6. Click the **OK**.



7. Disconnect the mains cord from the unit.

Connect RS-232C on the rear panel of the unit and Serial Port of windows PC with RS-232C cable.

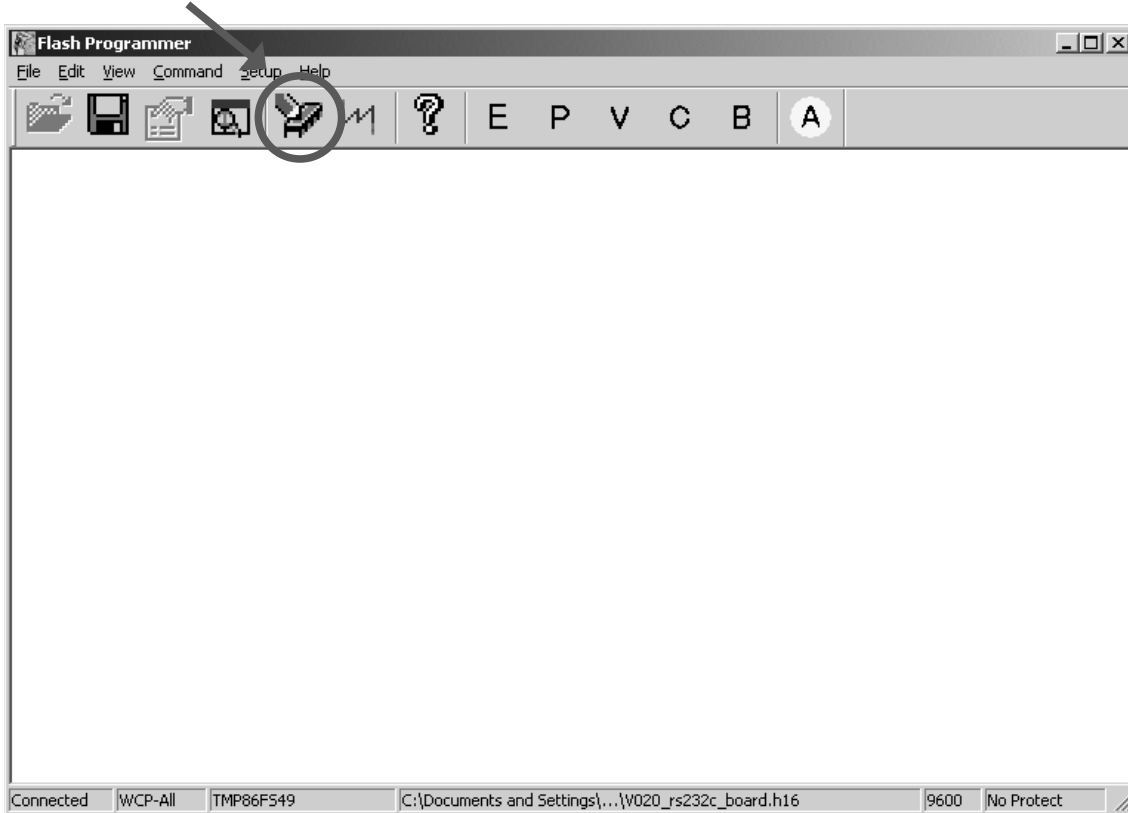
Insert a thin rod to the hole near the EXT. INT. slide switch (REMOTE CONTROL) and push the switch (1508) inside to turn on the switch.



Connect the mains cord into the unit.

NOTE : When the unit is into boot mode, STANDBY LED is not lights up.

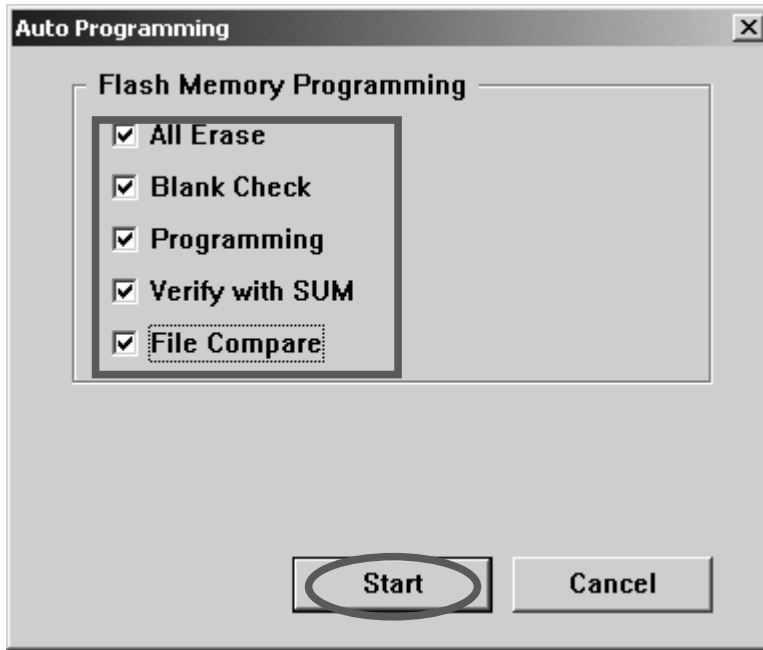
8. Click the **Auto Programming**.



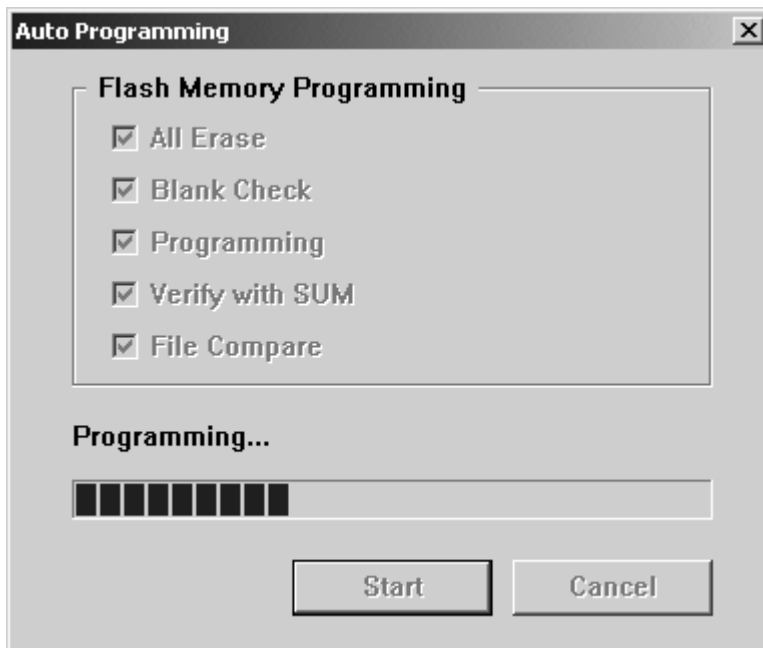
Auto Programming appears.



9. Check the **all check boxes in Flash Memory Programming**.
And click the **Start**.



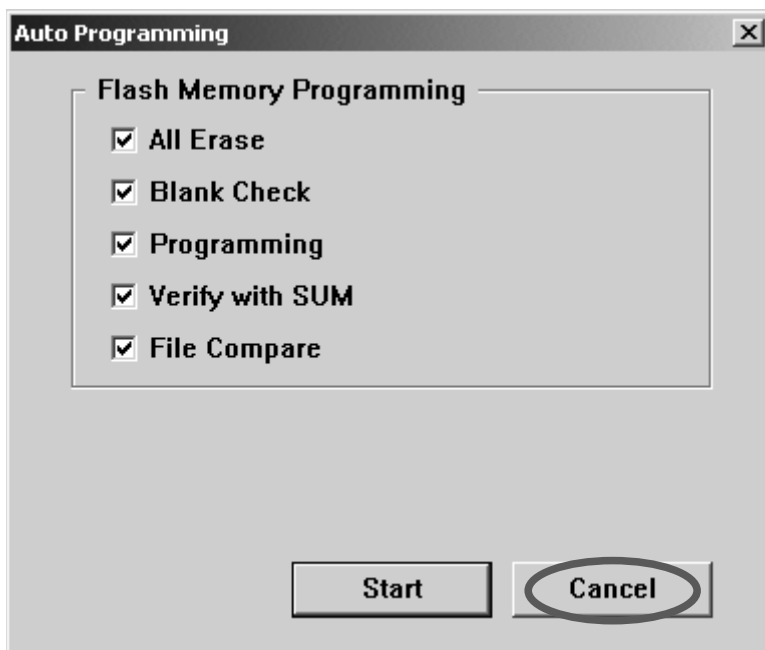
Firmware is written into the microprocessor.
The writing of firmware takes about 1 minute.



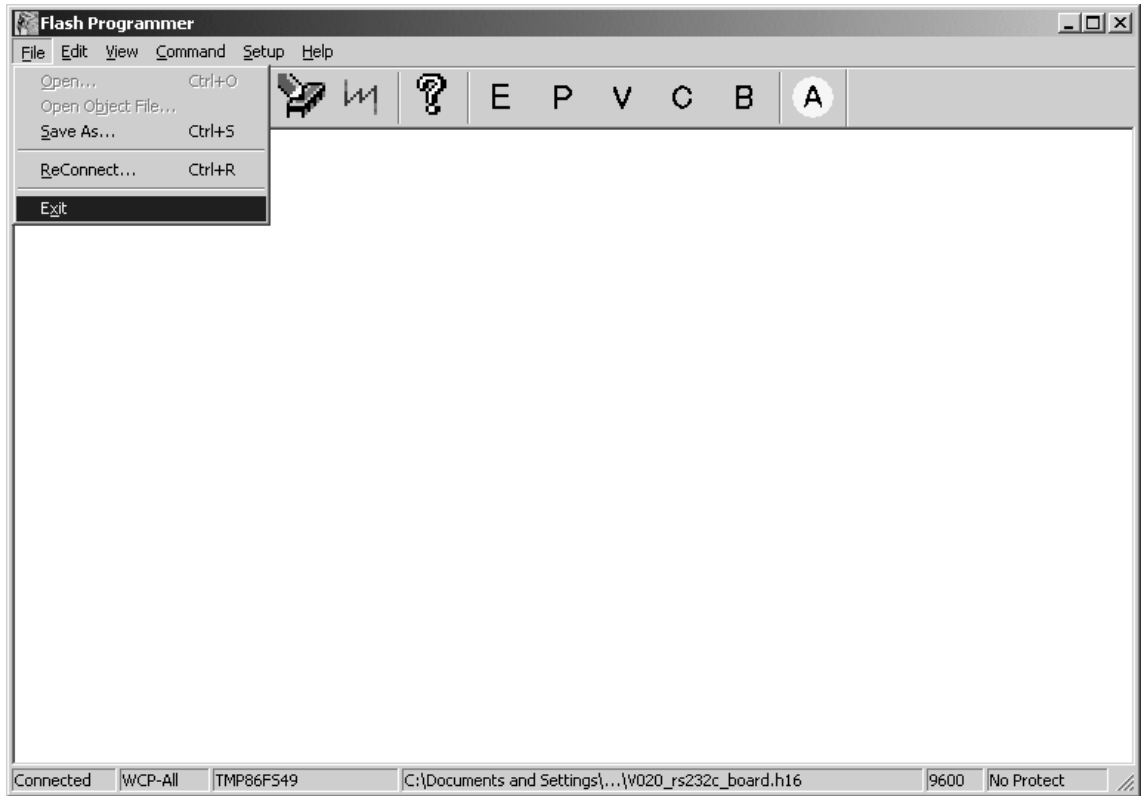
10. Click the **No**.



11. Click the **Cancel**.



12. Click the **File** in the menu bar and select the **Exit**.



13. Disconnect the mains cord and RS232C cable from the unit.

Insert a thin rod to the hole near the EXT. INT. slide switch (REMOTE CONTROL) and push the switch (1508) inside to turn off the switch.

8. SERVICE MODE

Firmware (Back-end) version check

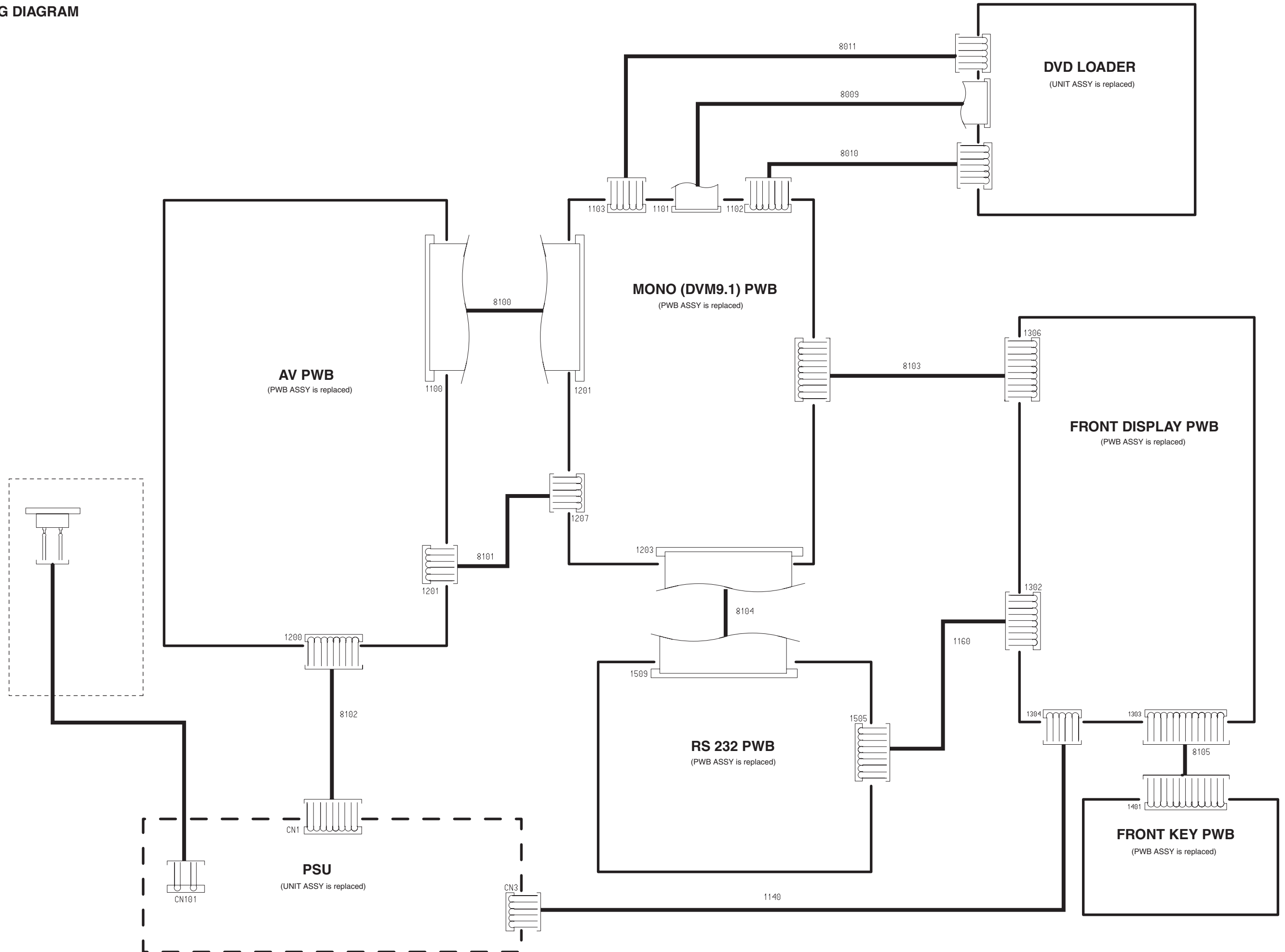
Connect the DVD player to TV and operate by using Remote controller RC001DV.

1. Press the **POWER** button to turn on the unit.
2. Press the **OPEN/CLOSE** button to open the disc tray.
3. Press the **DISP.** Button of the Remote controller.
4. The following information is displayed on the TV screen. The firmware version is shown.
(Ex. : SD9.1 V18 4001-12 2)

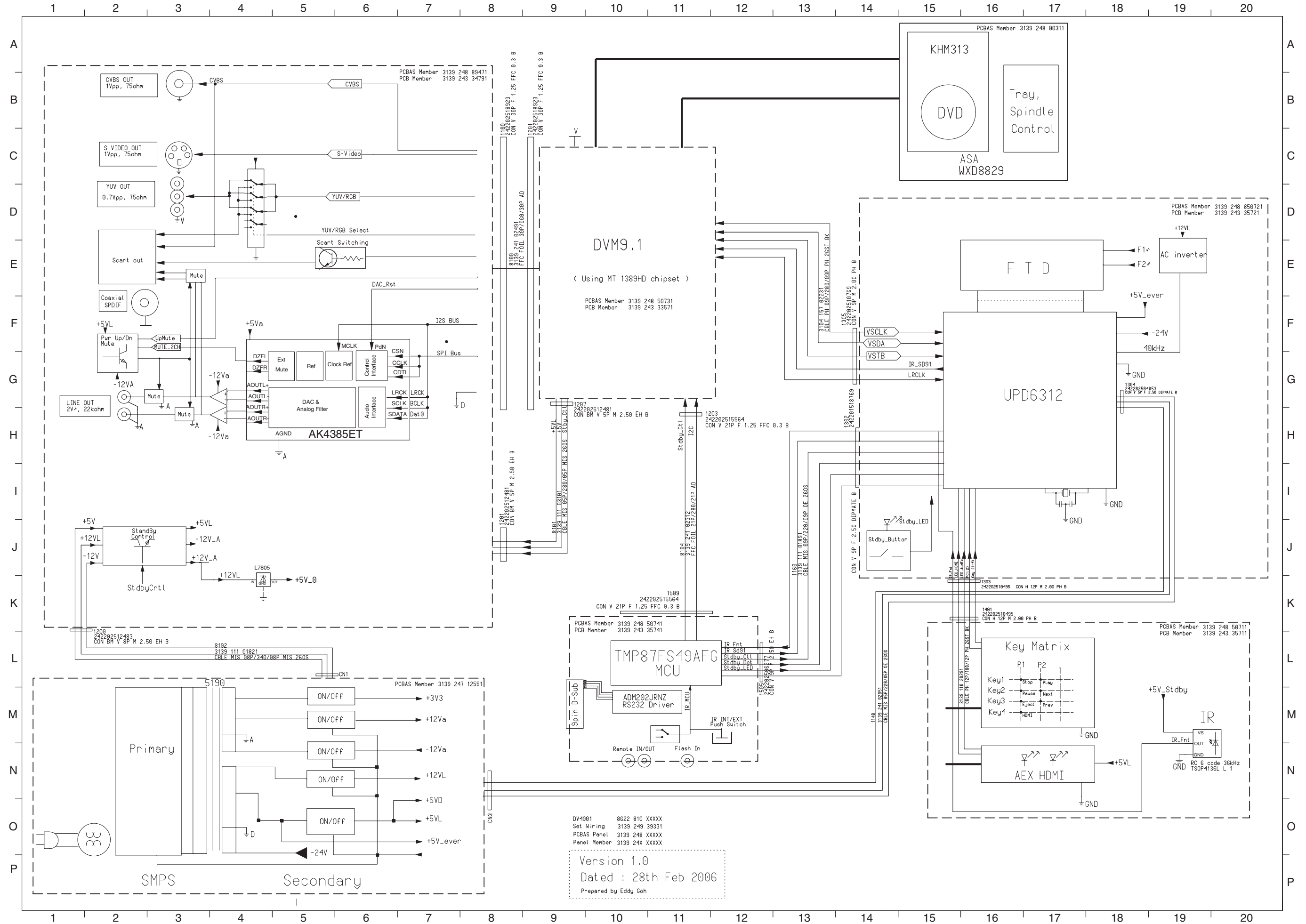


5. Turn off power to quit Service Mode.

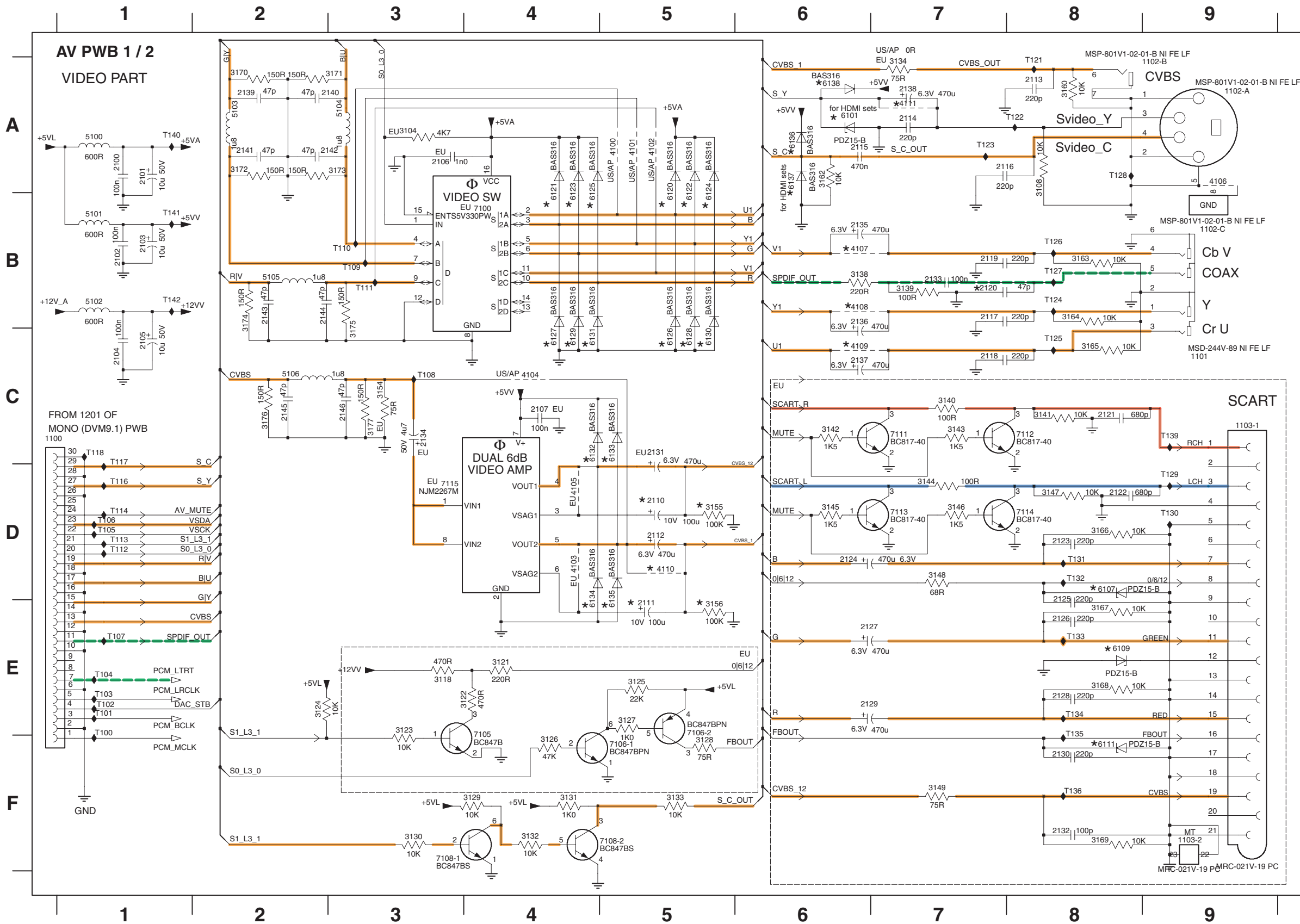
9. WIRING DIAGRAM



10. BLOCK DIAGRAM

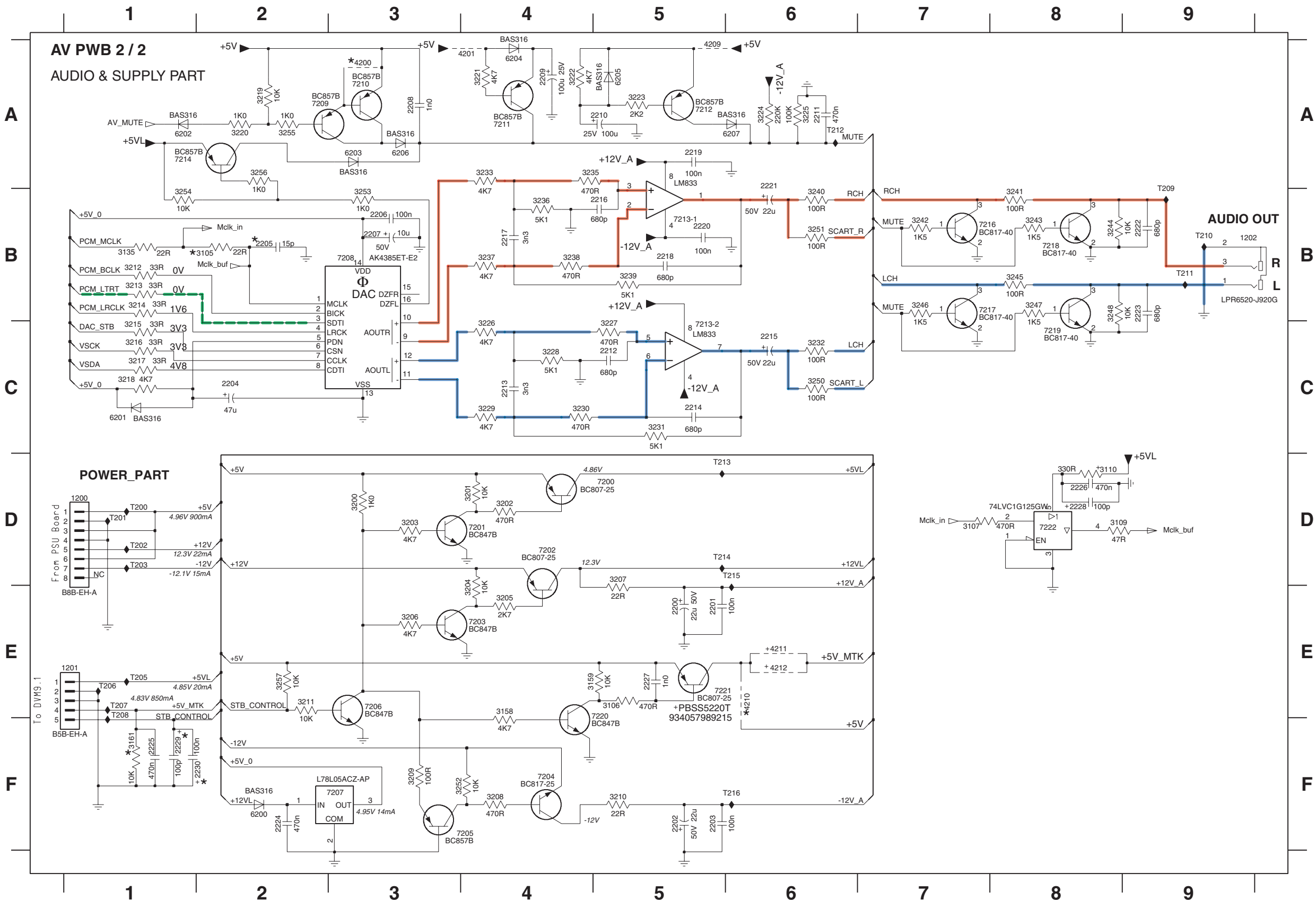


11. SCHEMATIC DIAGRAM



1100 C1	3149 F7	T106 D1
1101 C9	3154 C3	T107 E1
1102-A A8	3155 D5	T108 C3
1102-B A8	3156 E5	T109 B3
1102-C B9	3160 A8	T110 B3
1103-1 C9	3162 A6	T111 B3
1103-2 F9	3163 B8	T112 D1
2100 A1	3164 B8	T113 D1
2101 A1	3165 C8	T114 D1
2102 B1	3166 D8	T116 D1
2103 B1	3167 E8	T117 C1
2104 C1	3168 E8	T118 C1
2105 C1	3169 F8	T121 A8
2106 A3	3170 A2	T122 A8
2107 C4	3171 A3	T123 A7
2110 D5	3172 A2	T124 B8
2111 E5	3173 A3	T125 C8
2112 D5	3174 B2	T126 B8
2113 A8	3175 C3	T127 B8
2114 A7	3176 C2	T128 A8
2115 A6	3177 C3	T129 D9
2116 A7	4100 A5	T130 D9
2117 B7	4101 A5	T131 D8
2118 C7	4102 A5	T132 D8
2119 B7	4103 D4	T133 E8
2120 B7	4104 C4	T134 E8
2121 C8	4105 D4	T135 E8
2122 D8	4106 A9	T136 F8
2123 D8	4107 B6	T139 C9
2124 D6	4108 B6	T140 A1
2125 E8	4109 C6	T141 B1
2126 E8	4110 D5	T142 B1
2127 E6	4111 A7	
2128 E8	5100 A1	
2129 E6	5101 B1	
2130 F8	5102 B1	
2131 C5	5103 A2	
2132 F8	5104 A3	
2133 B7	5105 B2	
2134 C3	5106 C2	
2135 B6	6101 A6	
2136 B6	6107 D8	
2137 C6	6109 E8	
2138 A7	6111 F8	
2139 A2	6120 A5	
2140 A3	6121 A4	
2141 A2	6122 A5	
2142 A3	6123 A4	
2143 B2	6124 A5	
2144 B2	6125 A4	
2145 C2	6126 C5	
2146 C3	6127 C4	
3104 A3	6128 C5	
3108 A8	6129 C4	
3118 E3	6130 C5	
3121 E4	6131 C4	
3122 E4	6132 C4	
3123 E3	6133 C5	
3124 E2	6134 D4	
3125 E5	6135 D5	
3126 F4	6136 A6	
3127 E5	6137 A6	
3128 F5	6138 A6	
3129 F4	7100 B4	
3130 F3	7105 F4	
3131 F4	7106-1 F5	
3132 F4	7106-2 E5	
3133 F5	7108-1 F4	
3134 A7	7108-2 F5	
3138 B6	7111 C7	
3139 B7	7112 C8	
3140 C7	7113 D7	
3141 C8	7114 D8	
3142 C6	7115 D3	
3143 C7	T100 E1	
3144 D7	T101 E1	
3145 D6	T102 E1	
3146 D7	T103 E1	
3147 D8	T104 E1	
3148 D7	T105 D1	

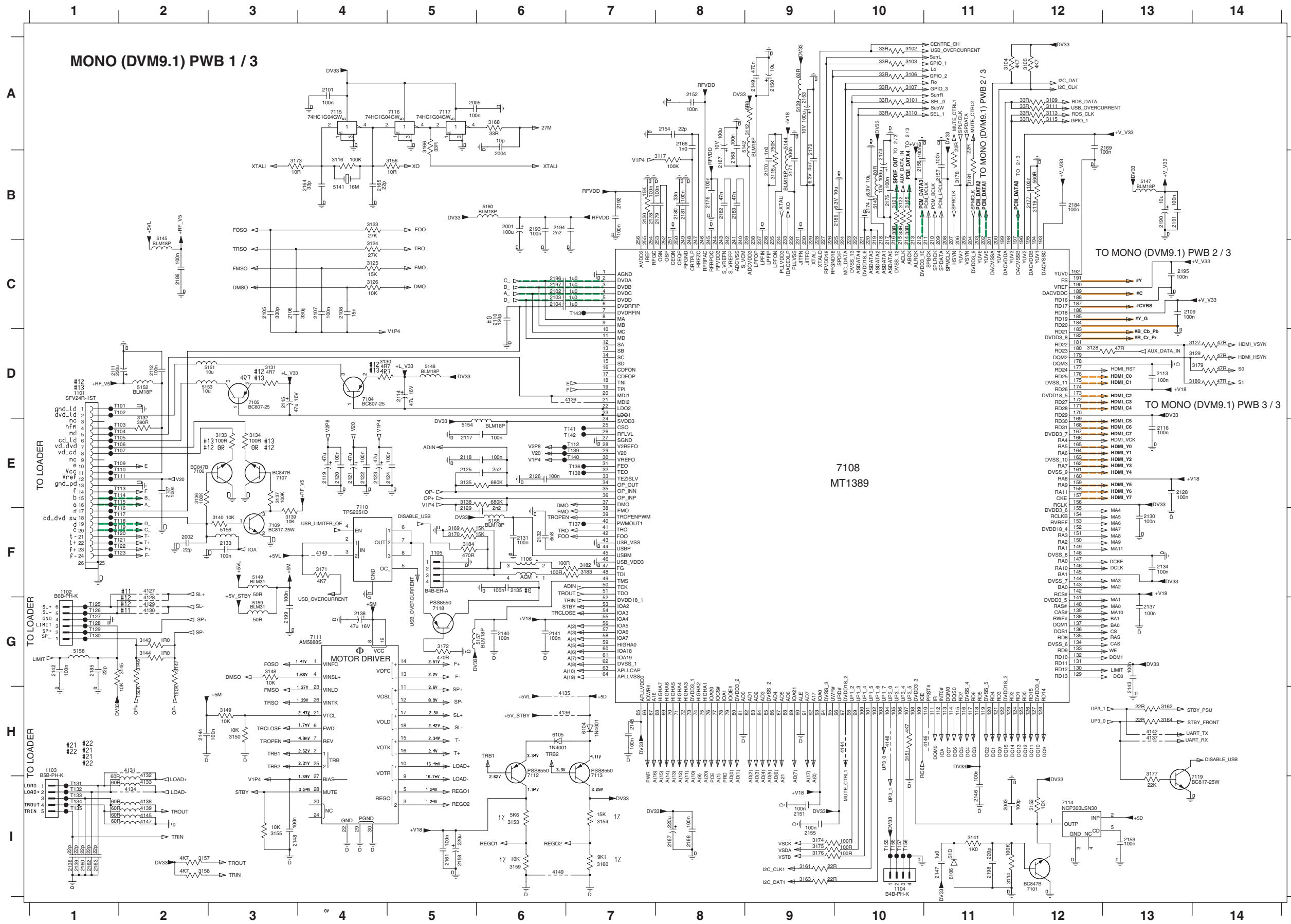
EU - for Europe version
 US/AP - For US/AP versions
 * OPTION



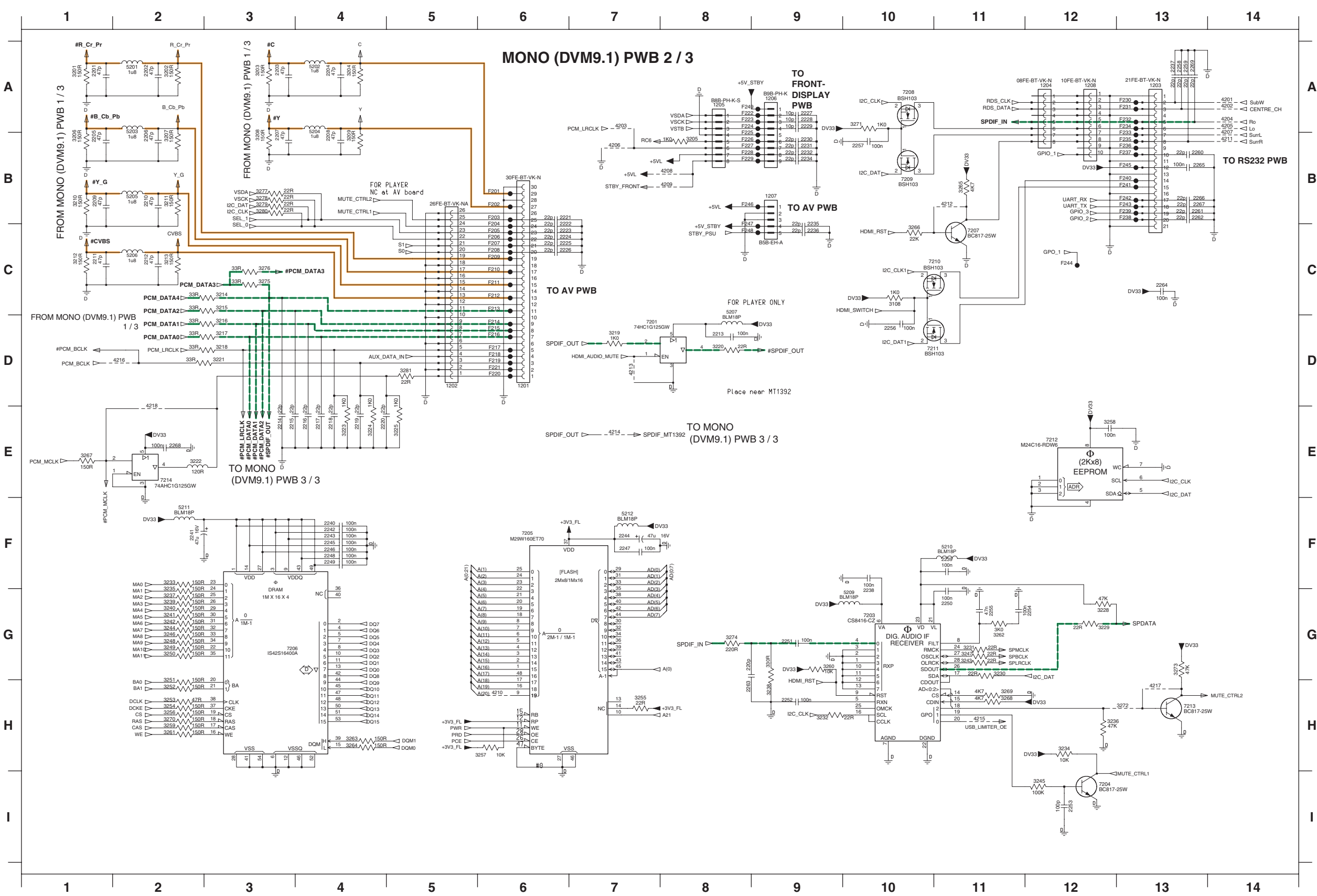
1200 D1	3233 A4
1201 E1	3235 A4
1202 B9	3236 B4
2200 E5	3237 B4
2201 E5	3238 B4
2202 F5	3239 B5
2203 F5	3240 B6
2204 C2	3241 B8
2205 B2	3242 B7
2206 B3	3243 B8
2207 B3	3244 B8
2208 A3	3245 B8
2209 A4	3246 B7
2210 A5	3247 B8
2211 A6	3248 B8
2212 C5	3250 C6
2213 C4	3251 B6
2214 C5	3252 F4
2215 C6	3253 B3
2216 B5	3254 B1
2217 B4	3255 A2
2218 B5	3256 A2
2219 A5	3257 E2
2220 B5	4200 A3
2221 A6	4201 A4
2222 B9	4209 A5
2223 B9	4210 E6
2224 F2	4211 E6
2225 F1	4212 E6
2226 D8	6200 F2
2227 E5	6201 C1
2228 D8	6202 A1
2229 F1	6203 A3
2230 F2	6204 A4
3105 B2	6205 A5
3106 E5	6206 A3
3107 D7	6207 A6
3109 D8	7200 D5
3110 D8	7201 D4
3135 B1	7202 D4
3158 E4	7203 E4
3159 E5	7204 F4
3161 F1	7205 F4
3200 D3	7206 E3
3201 D4	7207 F2
3202 D4	7208 B3
3203 D3	7209 A2
3204 E4	7210 A3
3205 E4	7211 A4
3206 E3	7212 A5
3207 D5	7213-1 B5
3208 F4	7213-2 C5
3209 F3	7214 A1
3210 F5	7216 B7
3211 E2	7217 B7
3212 B1	7218 B8
3213 B1	7219 C8
3214 B1	7220 F4
3215 C1	7221 E6
3216 C1	7222 D8
3217 C1	T200 D1
3218 C1	T201 D1
3219 A2	T202 D1
3220 A2	T203 D1
3221 A4	T205 E1
3222 A4	T206 E1
3223 A5	T207 E1
3224 A6	T208 E1
3225 A6	T209 A9
3226 C4	T210 B9
3227 C5	T211 B9
3228 C4	T212 A6
3229 C4	T213 D5
3230 C4	T214 D5
3231 C5	T215 D6
3232 C6	T216 F6

* OPTION
+ RTR to implement

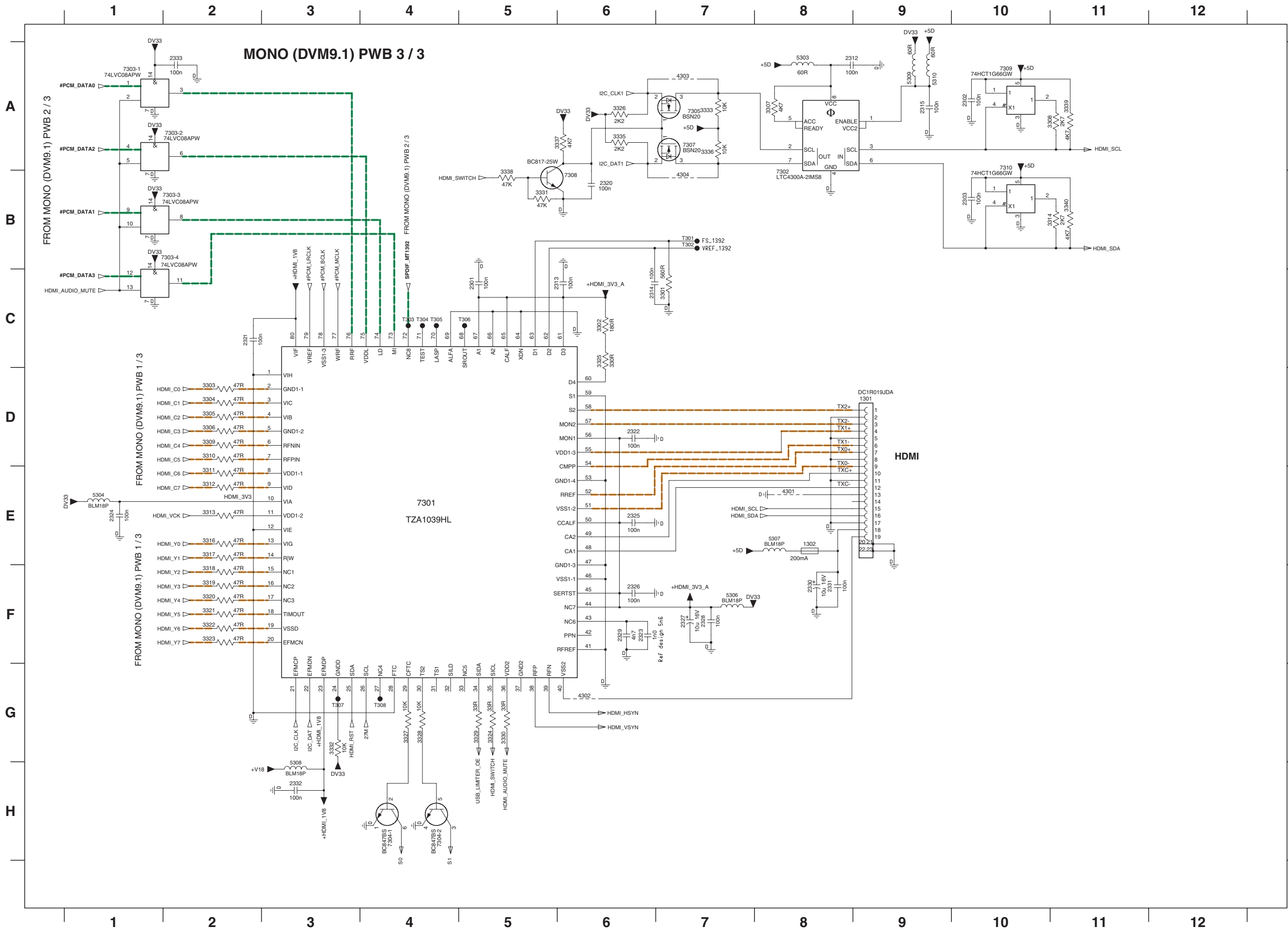
MONO (DVM9.1) PWB 1 / 3



1101 D1	3109 A12	6106 I11
1102 F1	3110 A10	7101 I12
1103 H1	3111 A12	7104 D4
1104 H10	3112 A9	7105 D3
1105 F5	3113 A12	7106 E2
1106 F6	3114 I11	7107 E3
2001 B6	3115 A12	7108 E10
2002 F2	3116 B4	7109 F3
2003 I11	3117 B8	7110 F4
2004 B6	3118 B9	7111 G4
2005 A5	3119 B12	7112 H6
2101 A4	3120 B7	7113 H7
2102 C6	3121 B10	7114 I12
2103 C6	3122 B10	7115 A4
2104 C6	3123 B4	7116 A5
2105 C3	3124 C4	7117 A5
2106 C3	3125 C4	7118 G5
2107 C4	3126 C4	7119 I13
2108 C4	3127 D14	7120 I2
2109 C13	3128 D12	7121 D2
2110 C6	3129 D4	7123 E2
2111 D1	3130 D4	7124 E2
2112 D2	3131 D3	7125 E2
2113 D13	3132 E2	7126 E2
2114 D5	3133 E3	7127 E2
2115 D3	3134 E3	7128 E2
2116 E3	3135 E5	7129 E2
2117 E5	3136 E2	7130 I11
2118 E5	3137 E3	7131 I2
2119 E4	3138 E5	7132 I2
2120 E4	3139 F3	7133 F2
2121 E4	3140 F3	7134 G1
2122 E4	3141 H1	7135 G1
2123 E4	3142 G2	7136 F2
2124 E5	3143 G2	7137 F2
2125 E5	3144 G2	7138 F2
2126 E6	3145 G2	7139 F2
2127 E2	3146 G2	7140 F2
2128 E13	3147 G3	7141 G1
2129 F5	3148 H3	7142 G1
2130 F13	3149 H3	7143 G1
2131 F6	3150 H3	7144 H3
2132 F6	3151 H10	7145 H3
2133 F3	3152 I12	7146 H3
2134 F13	3153 I6	7147 H3
2135 F6	3154 I13	7148 H3
2136 I1	3155 I10	7149 H3
2137 G13	3156 B5	7150 I10
2138 G4	3157 I2	7151 I10
2139 G1	3158 I2	7152 I10
2140 G6	3159 I6	7153 I10
2141 G6	3160 I7	7154 I10
2142 G1	3161 I9	7155 I10
2143 H13	3162 H13	7156 I10
2144 H2	3163 B9	7157 I10
2145 H7	3164 H13	7158 I10
2146 H1	3165 A10	
2147 H11	3166 A6	
2148 I3	3167 F5	
2149 A9	3168 A6	
2150 A9	3169 F5	
2151 I9	3170 F5	
2152 A8	3171 F4	
2153 A9	3172 G5	
2154 A8	3173 B3	
2155 I9	3174 I9	
2156 B10	3175 H13	
2157 B11	3176 H11	
2158 I5	3177 D14	
2159 I13	3178 D14	
2160 I1	3179 B11	
2161 I5	3180 F7	
2162 I11	3181 F7	
2163 I11	3182 F5	
2164 B4	3183 D7	
2165 B4	3184 F5	
2166 A8	3185 D7	
2167 B8	3186 D7	
2168 B8	3187 C2	
2169 A13	3188 H2	
2170 A9	3189 H2	
2171 B9	3190 H2	
2172 A9	3191 A2	
2173 B10	3192 C2	
2174 B10	3193 H6	
2175 B10	3194 H6	
2176 B8	3195 H13	
2177 B12	3196 I2	
2178 B7	3197 H13	
2179 B8	3198 F4	
2180 B8	3199 H10	
2181 B8	3200 I2	
2182 B8	3201 H11	
2183 B8	3202 I2	
2184 B12	3203 H10	
2185 G1	3204 I9	
2186 C2	3205 A9	
2187 I8	3206 B4	
2188 I8	3207 A9	
2189 B9	3208 B10	
2190 B13	3209 A9	
2191 B13	3210 C2	
2192 B7	3211 B13	
2193 B6	3212 C5	
2194 B6	3213 F3	
2195 C13	3214 D3	
2196 C6	3215 D2	
2197 C6	3216 D2	
2198 I11	3217 E5	
2199 G3	3218 F6	
3101 A10	5156 F3	
3102 A10	5157 G6	
3103 A10	5158 G1	
3104 A11	5159 G3	
3105 A12	5160 B6	
3106 A10	5161 H7	
3107 A10	5162 H6	

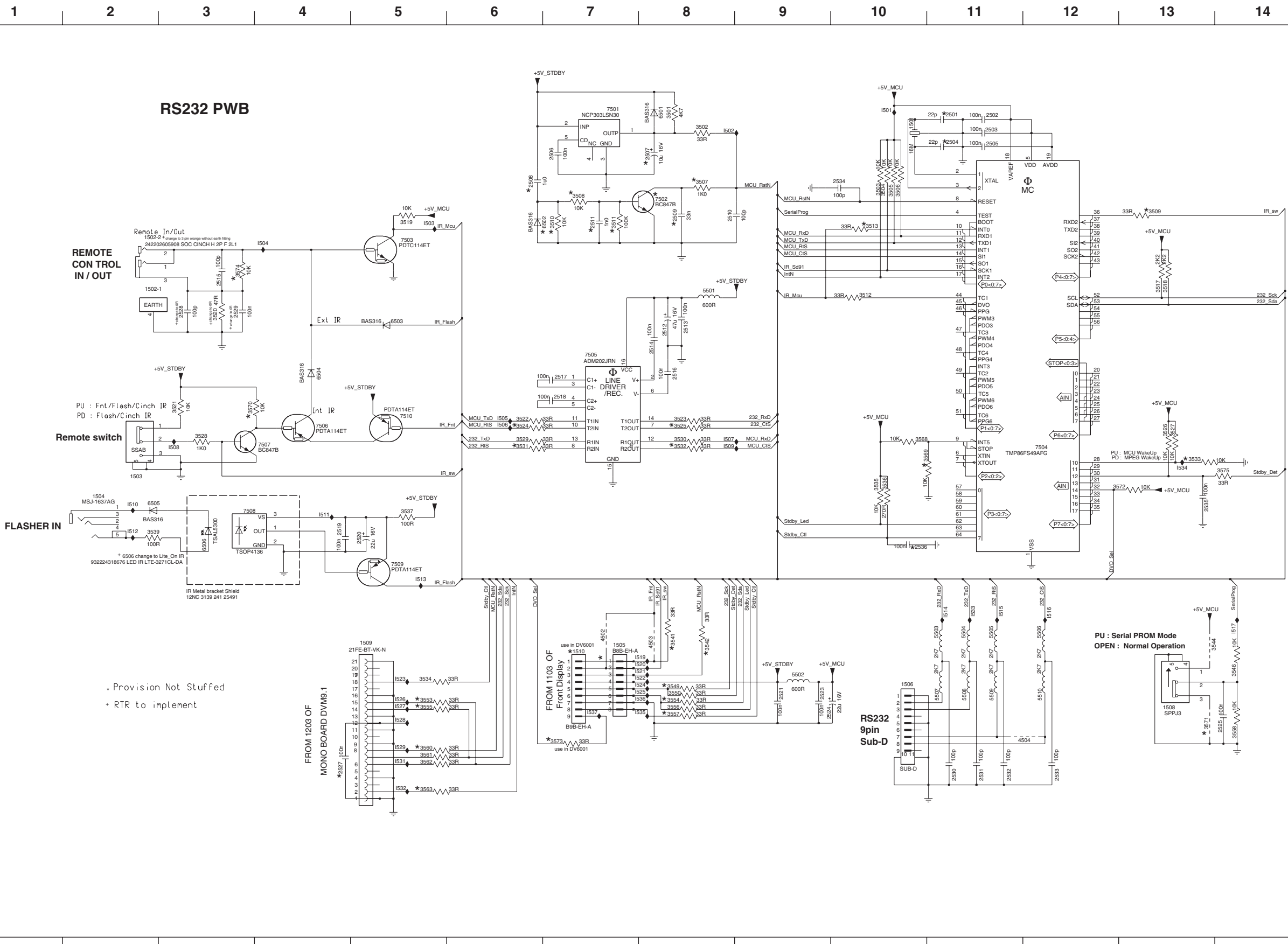


1201 D6	3236 H12	F223 A8
1202 D5	3237 G2	F224 A8
1203 A13	3238 H9	F225 B8
1204 A12	3239 G2	F226 B8
1205 A8	3240 G2	F227 B8
1206 A9	3241 G2	F228 B8
1207 B9	3242 G2	F229 B8
1208 A12	3243 G11	F230 A13
1201 A1	3244 G2	F231 A13
1202 A2	3245 I12	F232 A13
1203 A3	3246 G2	F233 B13
1204 A4	3247 G11	F234 A13
1205 B1	3248 G2	F235 B13
1206 B2	3249 G2	F236 B13
1207 B3	3250 G2	F237 B13
1208 B4	3251 H2	F238 B13
1209 B1	3252 H2	F239 B13
1210 B2	3253 H2	F240 B13
1211 C1	3254 H2	F241 B13
1212 C2	3255 H7	F242 B13
1213 D8	3256 H2	F243 B13
1214 E3	3257 H6	F244 C12
1215 E3	3258 E12	F245 B13
1216 E4	3259 H2	F246 B8
1217 E4	3260 G9	F247 C8
1218 E4	3261 H2	F248 C8
1219 E4	3262 G11	F249 A8
1220 E4	3263 H4	
1221 B6	3264 H4	
1222 C6	3265 B11	
1223 C6	3266 C10	
1224 C6	3267 E1	
1225 C6	3268 H11	
1226 C6	3269 H11	
1227 A9	3270 H2	
1228 A9	3271 A10	
1229 A9	3272 H13	
1230 B9	3273 G13	
1231 B9	3274 G8	
1232 B9	3275 C3	
1233 B9	3276 C3	
1234 B9	3277 B3	
1235 C9	3278 B3	
1236 C9	3279 B3	
1237 A13	3280 B3	
1238 F11	3281 D5	
1239 F11	3282 H13	
1240 F4	3283 A14	
1241 F2	3284 A14	
1242 F4	3285 A7	
1243 F4	3286 A14	
1244 F7	3287 A14	
1245 F4	3288 B7	
1246 F4	3289 B14	
1247 F7	3290 B8	
1248 F4	3291 B8	
1249 F4	3292 H6	
1250 G11	3293 B14	
1251 G9	3294 B11	
1252 H9	3295 D7	
1253 I12	3296 E7	
1254 G12	3297 H11	
1255 G11	3298 D2	
1256 D10	3299 H13	
1257 B10	3300 E2	
1258 A13	3301 A2	
1259 A13	3302 A4	
1260 B13	3303 B2	
1261 B13	3304 B4	
1262 B13	3305 B2	
1263 H8	3306 C2	
1264 C13	3307 C8	
1265 B13	3308 G10	
1266 B13	3309 F11	
1267 B13	3310 F2	
1268 E2	3311 F2	
1269 A13	3312 D7	
1308 C10	3313 G10	
3201 A1	3314 H12	
3202 A2	3315 F6	
3203 A3	3316 G4	
3204 A4	3317 C11	
3205 B8	3318 A10	
3206 B1	3319 B10	
3207 B2	3320 C11	
3208 B3	3321 D10	
3209 B4	3322 E12	
3210 B1	3323 H13	
3211 B2	3324 E2	
3212 C1	3325 B6	
3213 C2	3326 B6	
3214 C3	3327 B6	
3215 C3	3328 C6	
3216 D3	3329 C6	
3217 D3	3330 C6	
3218 D3	3331 C6	
3219 D7	3332 C6	
3220 D8	3333 C6	
3221 D3	3334 C6	
3222 E3	3335 C6	
3223 E4	3336 C6	
3224 E4	3337 C6	
3225 E5	3338 D6	
3228 G12	3339 D6	
3229 G12	3340 D6	
3230 G11	3341 D6	
3231 G11	3342 D6	
3232 H9	3343 F2	
3233 F2	3344 D6	
3234 H12	3345 D6	
3235 G2	3346 D6	



- 1301 D9
- 1302 E8
- 2301 C5
- 2302 A10
- 2303 B10
- 2312 A8
- 2313 C6
- 2314 A9
- 2315 A9
- 2320 B6
- 2321 C2
- 2322 D6
- 2323 F6
- 2324 E1
- 2325 E6
- 2326 F6
- 2327 F7
- 2328 F7
- 2329 F6
- 2330 F8
- 2331 F8
- 2332 H3
- 2333 A2
- 3301 C7
- 3302 C6
- 3303 D2
- 3304 D2
- 3305 D2
- 3306 D2
- 3307 A8
- 3308 A11
- 3309 D2
- 3310 D2
- 3311 E2
- 3312 E2
- 3313 E2
- 3314 B11
- 3316 E2
- 3317 E2
- 3318 F2
- 3319 F2
- 3320 F2
- 3321 F2
- 3322 F2
- 3323 F2
- 3324 G5
- 3325 C6
- 3326 A6
- 3327 G4
- 3328 G4
- 3329 G5
- 3330 G5
- 3331 B5
- 3332 G3
- 3333 A7
- 3335 A6
- 3336 A7
- 3337 A6
- 3338 B5
- 3339 A11
- 3340 B11
- 4301 E8
- 4302 G6
- 4303 A7
- 4304 B7
- 5303 A8
- 5304 E1
- 5306 F7
- 5307 E8
- 5308 H3
- 5309 A9
- 7301 E4
- 7302 B8
- 7303-1 A1
- 7303-2 A1
- 7303-3 B1
- 7303-4 B1
- 7304-1 H4
- 7304-2 H4
- 7305 A7
- 7307 A7
- 7308 B6
- 7309 A10
- 7310 B10
- T301 B7
- T302 B7
- T303 C4
- T304 C4
- T305 C4
- T306 C5
- T307 G3
- T308 G4

RS232 PWB



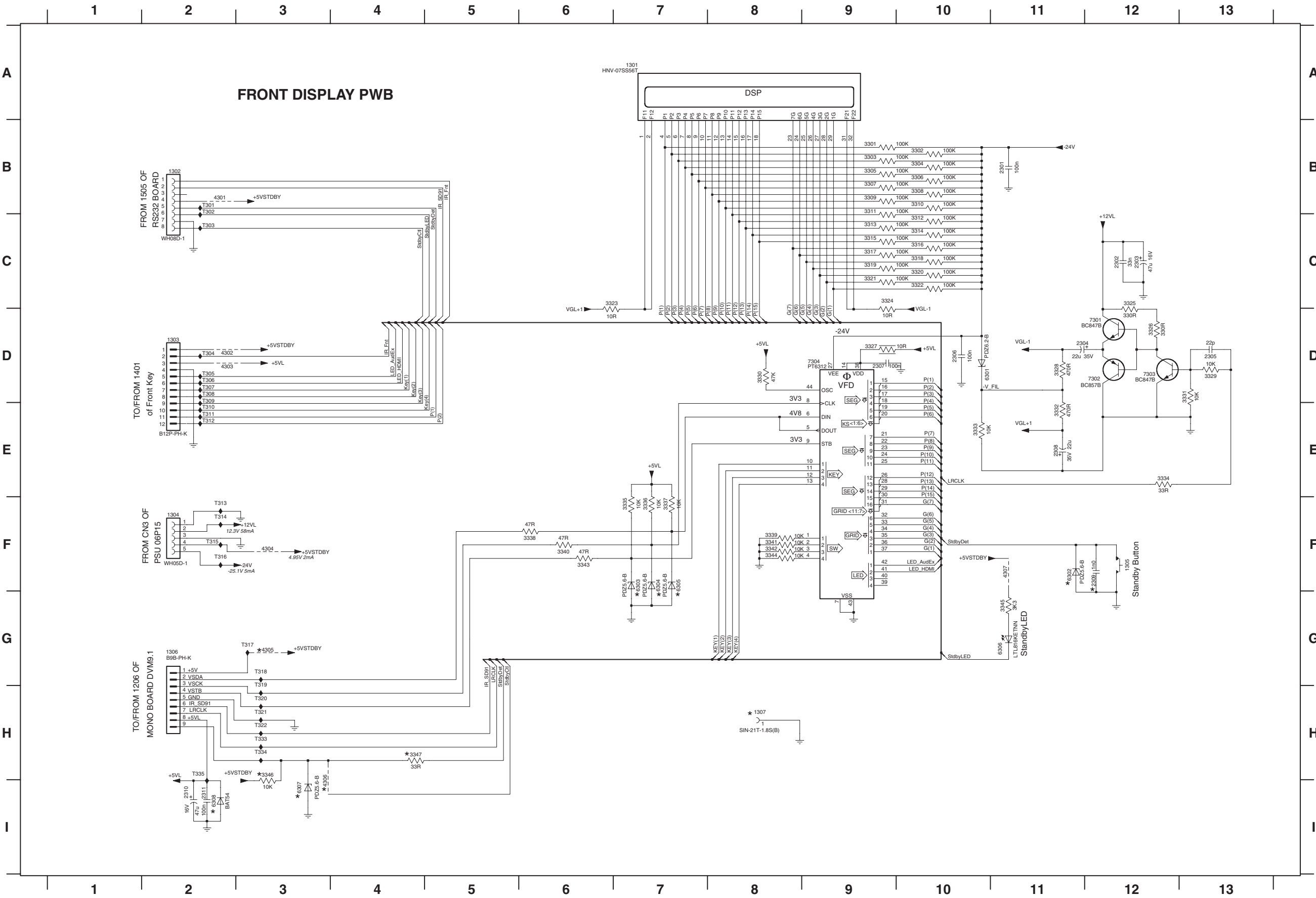
- 1501 A10
- 1502-1 C2
- 1502-2 B2
- 1503 E2
- 1504 E2
- 1505 G7
- 1506 G10
- 1508 G13
- 1509 G5
- 1510 G7
- 2501 A11
- 2502 A11
- 2503 A11
- 2504 A11
- 2505 A11
- 2506 B7
- 2507 B8
- 2508 B6
- 2509 B8
- 2510 B8
- 2511 B7
- 2512 C8
- 2513 C8
- 2514 D8
- 2515 C3
- 2516 D8
- 2517 D7
- 2518 D7
- 2519 E4
- 2520 F5
- 2521 G9
- 2523 G9
- 2524 G10
- 2525 H14
- 2527 H4
- 2528 C3
- 2529 C3
- 2530 H11
- 2531 H11
- 2532 H11
- 2533 H12
- 2534 B10
- 2535 E13
- 2536 F10
- 3501 A9
- 3502 A8
- 3503 B10
- 3504 B10
- 3505 B10
- 3506 B10
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- 3508 B7
- 3509 B13
- 3510 B7
- 3512 C10
- 3513 B10
- 3517 C3
- 3518 C13
- 3519 B5
- 3520 C3
- 3521 D3
- 3522 D6
- 3523 D8
- 3524 D6
- 3525 D8
- 3526 D13
- 3527 D13
- 3528 E3
- 3529 E6
- 3530 E8
- 3531 E6
- 3532 E8
- 3533 E13
- 3534 G5
- 3535 E10
- 3536 E10
- 3537 E5
- 3539 F2
- 3541 G8
- 3542 G8
- 3544 G14
- 3549 G8
- 3550 G8
- 3553 G5
- 3554 G8
- 3555 G5
- 3556 G8
- 3557 G8
- 3558 H14
- 3560 H5
- 3561 H5
- 3562 H5
- 3563 H5
- 3568 E10
- 3569 E11
- 3570 D3
- 3571 H13
- 3572 E13
- 3573 H7
- 3574 C3
- 3575 E14
- 4502 G7
- 4503 G8
- 4504 H12
- 5501 C8
- 5502 G9
- 5503 G11
- 5504 G11
- 5505 G11
- 5506 G12
- 5507 G11
- 5508 G11
- 5509 G11
- 5510 G12
- 5511 A8
- 5512 B6
- 5513 C5
- 5514 D5
- 5515 B2
- 5516 G4
- 5517 F4
- 5518 D7
- 5519 E2
- 5520 C5
- 5521 C5
- 5522 B8
- 5523 C5
- 5524 B8
- 5525 C5
- 5526 D4
- 5527 B8
- 5528 B8
- 5529 F5
- 5530 D5
- 5531 A10
- 5532 A8
- 5533 B5
- 5534 C4
- 5535 D6
- 5536 D6
- 5537 E2
- 5538 G3
- 5539 E3
- 5540 E2
- 5541 F3
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- 5543 B8
- 5544 C5
- 5545 D4
- 5546 E2
- 5547 F3
- 5548 A7
- 5549 B8
- 5550 C5
- 5551 D4
- 5552 B8
- 5553 F5
- 5554 D5
- 5555 B8
- 5556 D5
- 5557 G3
- 5558 D5
- 5559 F5
- 5560 D5
- 5561 A10
- 5562 A8
- 5563 B5
- 5564 C4
- 5565 D6
- 5566 D6
- 5567 E2
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- 5570 E2
- 5571 F3
- 5572 A7
- 5573 B8
- 5574 C5
- 5575 D4

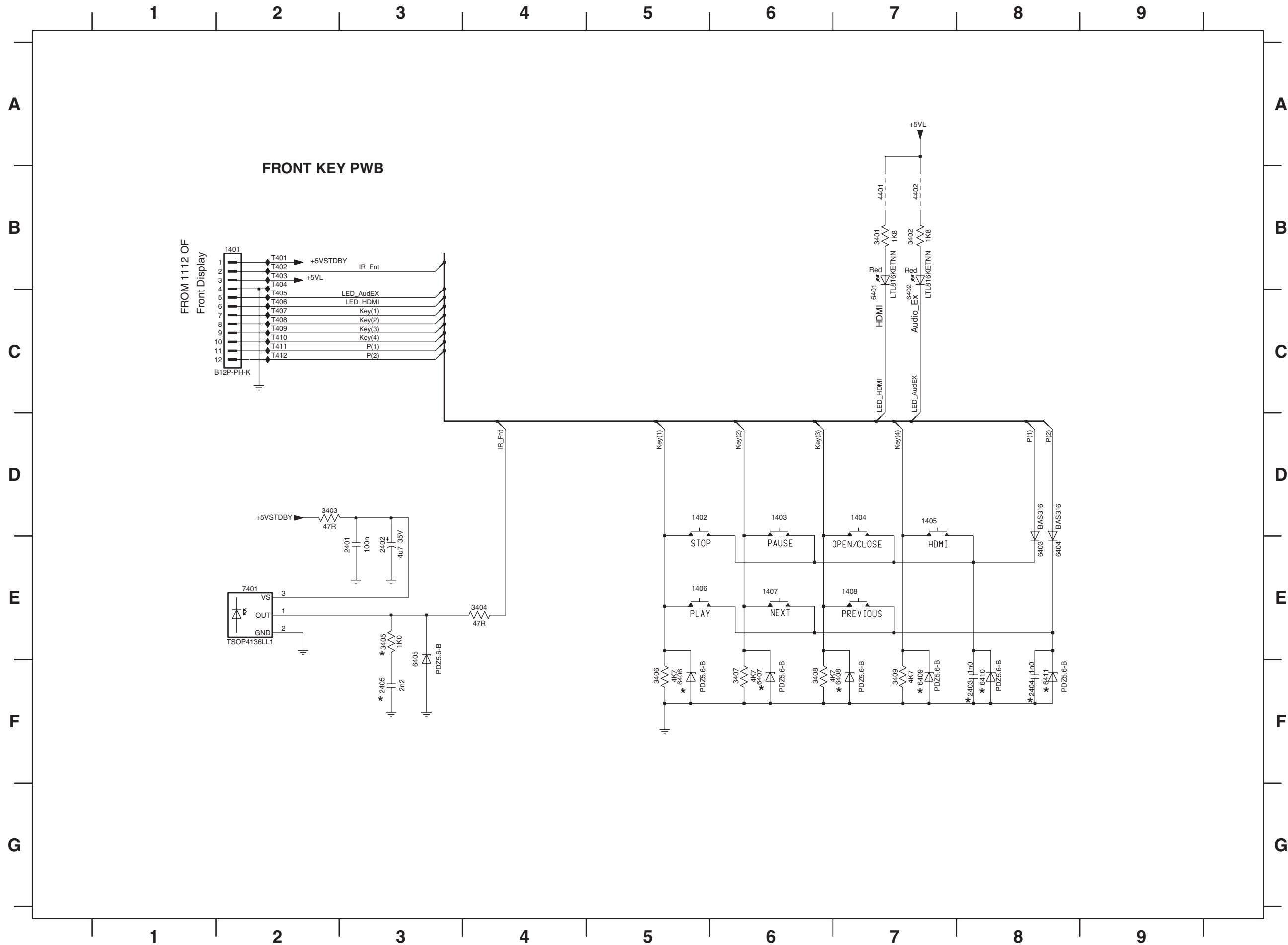
. Provision Not Stuffed
 + RTR to implement

PU : Serial PROM Mode
 OPEN : Normal Operation

T335 H2

1301 A7
1302 B2
1303 D2
1304 F2
1305 F12
1306 G2
1307 H8
2301 B11
2302 C12
2303 C12
2304 D11
2305 D13
2306 D10
2307 D9
2308 E11
2309 F12
2310 I2
2311 I2
3301 B9
3302 B10
3303 B9
3304 B10
3305 B9
3306 B10
3307 B9
3308 B10
3309 B9
3310 B10
3311 B9
3312 C10
3313 C9
3314 C10
3315 C9
3316 C10
3317 C9
3318 C10
3319 C9
3320 C10
3321 C9
3322 C10
3323 C6
3324 C9
3325 C12
3326 D12
3327 D9
3328 D11
3329 D13
3330 D8
3331 D13
3332 E11
3333 E10
3334 E12
3335 F7
3336 F7
3337 F7
3338 F6
3339 F8
3340 F6
3341 F8
3342 F8
3343 F6
3344 F8
3345 G11
3346 H3
3347 H4
4301 B2
4302 D2
4303 D2
4304 F3
4305 G3
4306 I3
4307 F11
6301 D10
6302 F11
6303 F7
6304 F7
6305 F7
6306 G11
6307 I3
6308 I2
7301 D12
7302 D12
7303 D12
7304 D9
T301 B2
T302 B2
T303 C2
T304 D2
T305 D2
T306 D2
T307 D2
T308 D2
T309 D2
T310 E2
T311 E2
T312 E2
T313 F2
T314 F2
T315 F2
T316 F2
T317 G3
T318 G3
T319 G3
T320 H3
T321 H3
T322 H3
T333 H3
T334 H3



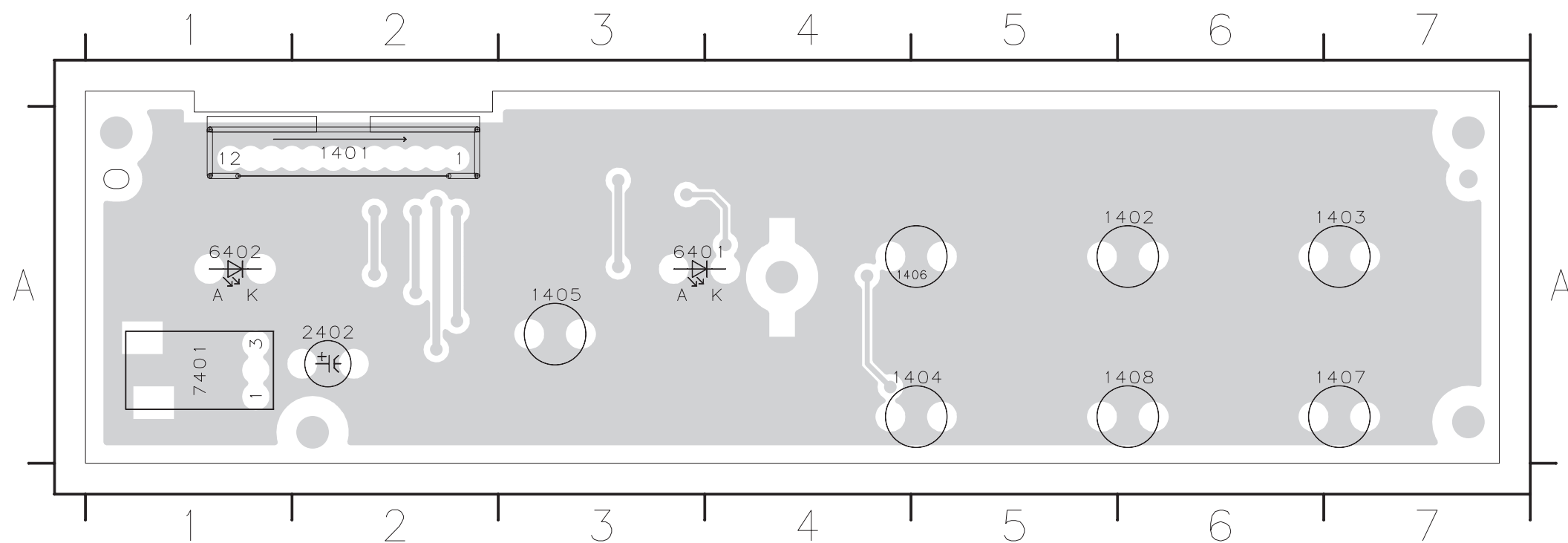


- 1401 B2
- 1402 D5
- 1403 D6
- 1404 D7
- 1405 D7
- 1406 E5
- 1407 E6
- 1408 E7
- 2401 E3
- 2402 E3
- 2403 F8
- 2404 F8
- 2405 F3
- 3401 B7
- 3402 B7
- 3403 D2
- 3404 E4
- 3405 E3
- 3406 F5
- 3407 F6
- 3408 F6
- 3409 F7
- 4401 B7
- 4402 B7
- 6401 B7
- 6402 B7
- 6403 E8
- 6404 E8
- 6405 E3
- 6406 F5
- 6407 F6
- 6408 F7
- 6409 F7
- 6410 F8
- 6411 F8
- 7401 E2
- T401 B2
- T402 B2
- T403 B2
- T404 B2
- T405 C2
- T406 C2
- T407 C2
- T408 C2
- T409 C2
- T410 C2
- T411 C2
- T412 C2

12. PARTS LOCATION

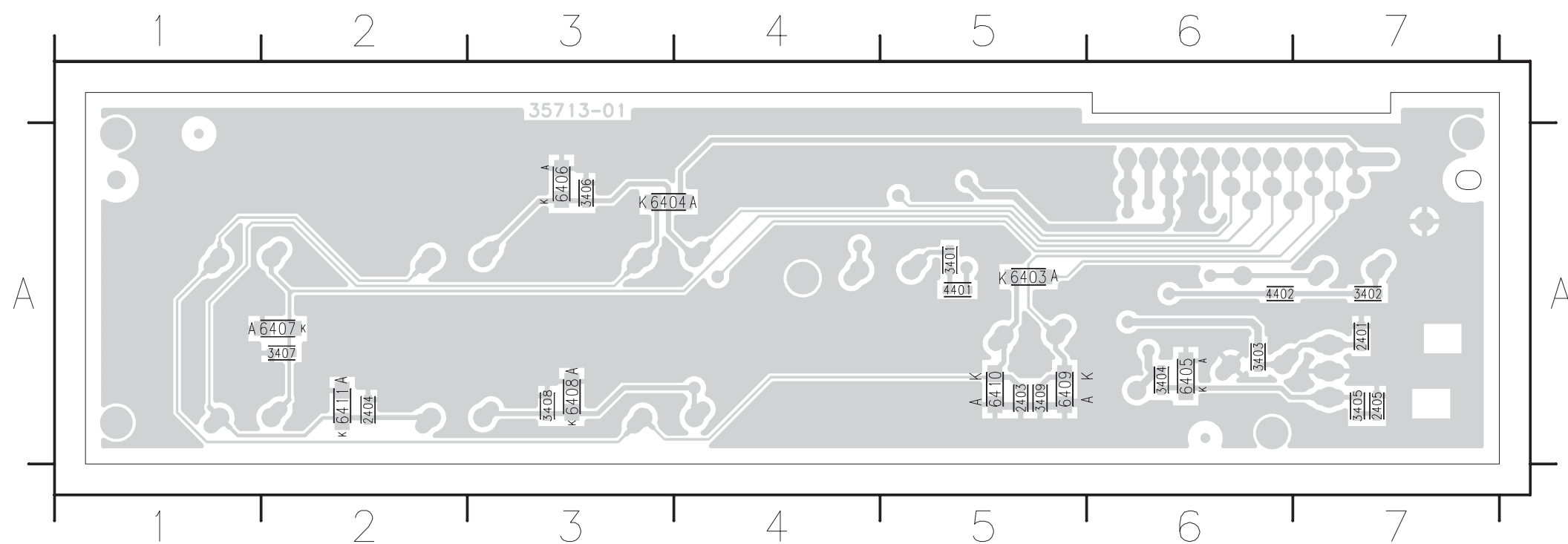
FRONT KEY PWB (A)

1401 A2	1403 A7	1405 A3	1407 A7	2402 A2	6402 A1
1402 A6	1404 A5	1406 A4	1408 A6	6401 A3	7401 A1



FRONT KEY PWB (B)

2401 A7	2405 A7	3403 A6	3406 A3	3409 A5	6403 A5	6406 A3	6409 A5
2403 A5	3401 A5	3404 A6	3407 A2	4401 A5	6404 A3	6407 A2	6410 A5
2404 A2	3402 A7	3405 A7	3408 A3	4402 A6	6405 A6	6408 A3	6411 A2

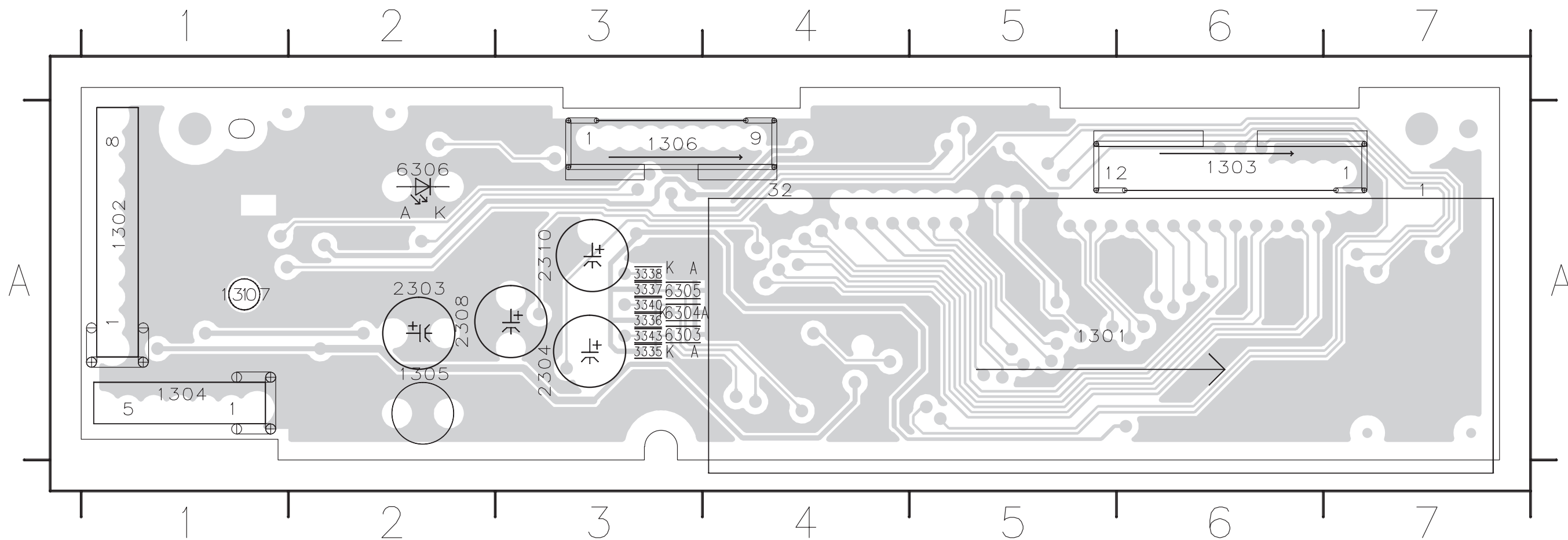


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

FRONT DISPLAY PWB (A)

1301	A5	1304	A1	1307	A1	2308	A2	3336	A3	3340	A3	6304	A3
1302	A1	1305	A2	2303	A2	2310	A3	3337	A3	3343	A3	6305	A3
1303	A6	1306	A3	2304	A3	3335	A3	3338	A3	6303	A3	6306	A2

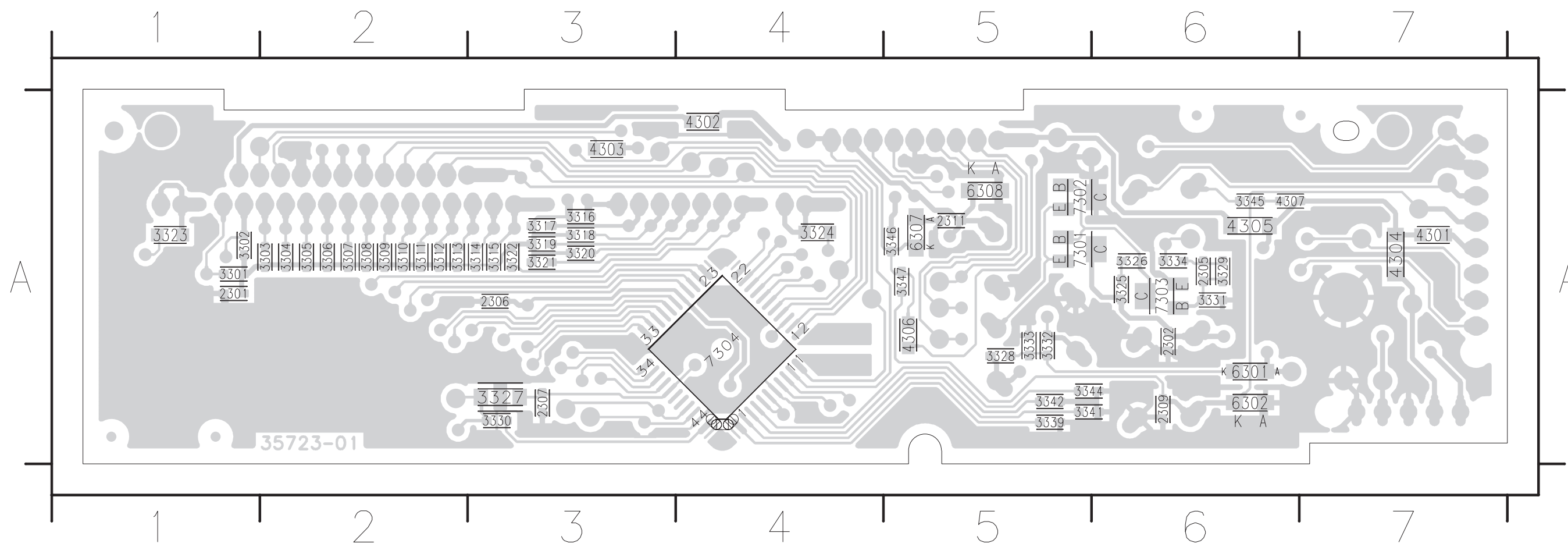


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

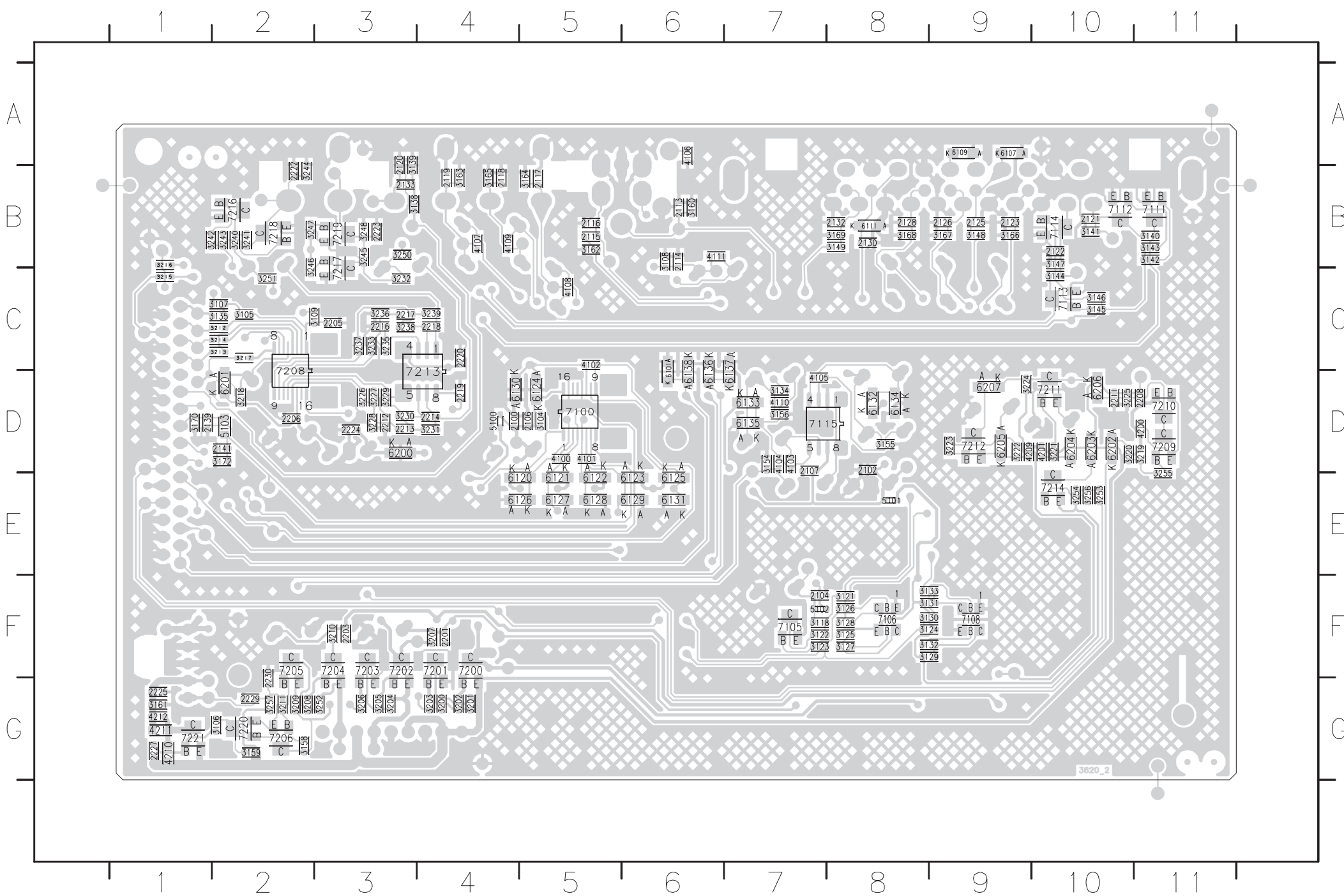
FRONT DISPLAY PWB (B)

2301	A1	3301	A1	3308	A2	3315	A3	3322	A3	3329	A6	3341	A5	4302	A4	6302	A6
2302	A6	3302	A1	3309	A2	3316	A3	3323	A1	3330	A3	3342	A5	4303	A3	6307	A5
2305	A6	3303	A2	3310	A2	3317	A3	3324	A4	3331	A6	3344	A5	4304	A7	6308	A5
2306	A3	3304	A2	3311	A2	3318	A3	3325	A6	3332	A5	3345	A6	4305	A6	7301	A5
2307	A3	3305	A2	3312	A2	3319	A3	3326	A6	3333	A5	3346	A5	4306	A5	7302	A5
2309	A6	3306	A2	3313	A2	3320	A3	3327	A3	3334	A6	3347	A5	4307	A6	7303	A6
2311	A5	3307	A2	3314	A3	3321	A3	3328	A5	3339	A5	4301	A7	6301	A6	7304	A4



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).



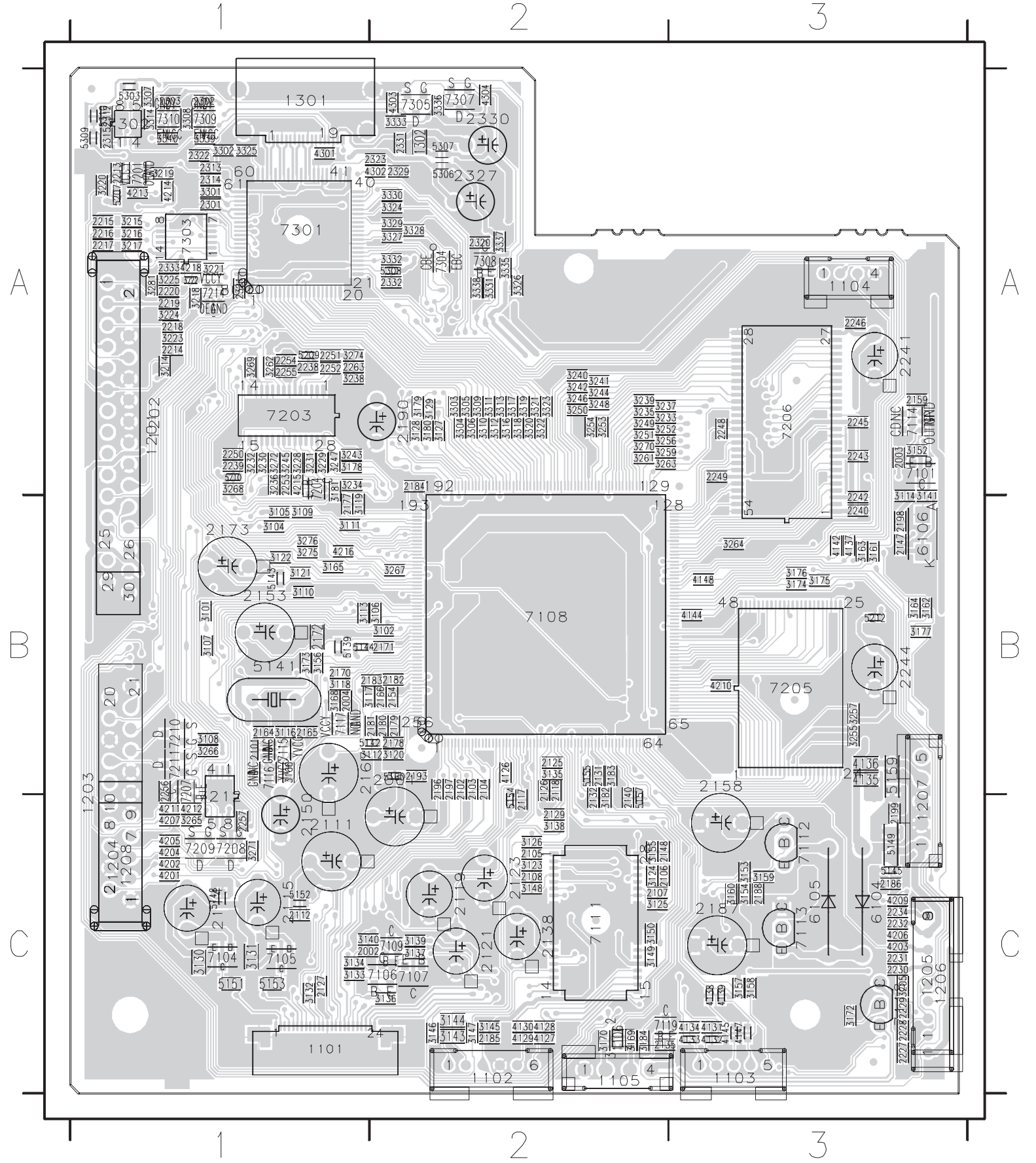
AV PWB (B)

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鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。
Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

MONO (DVM9.1) PWB (A)

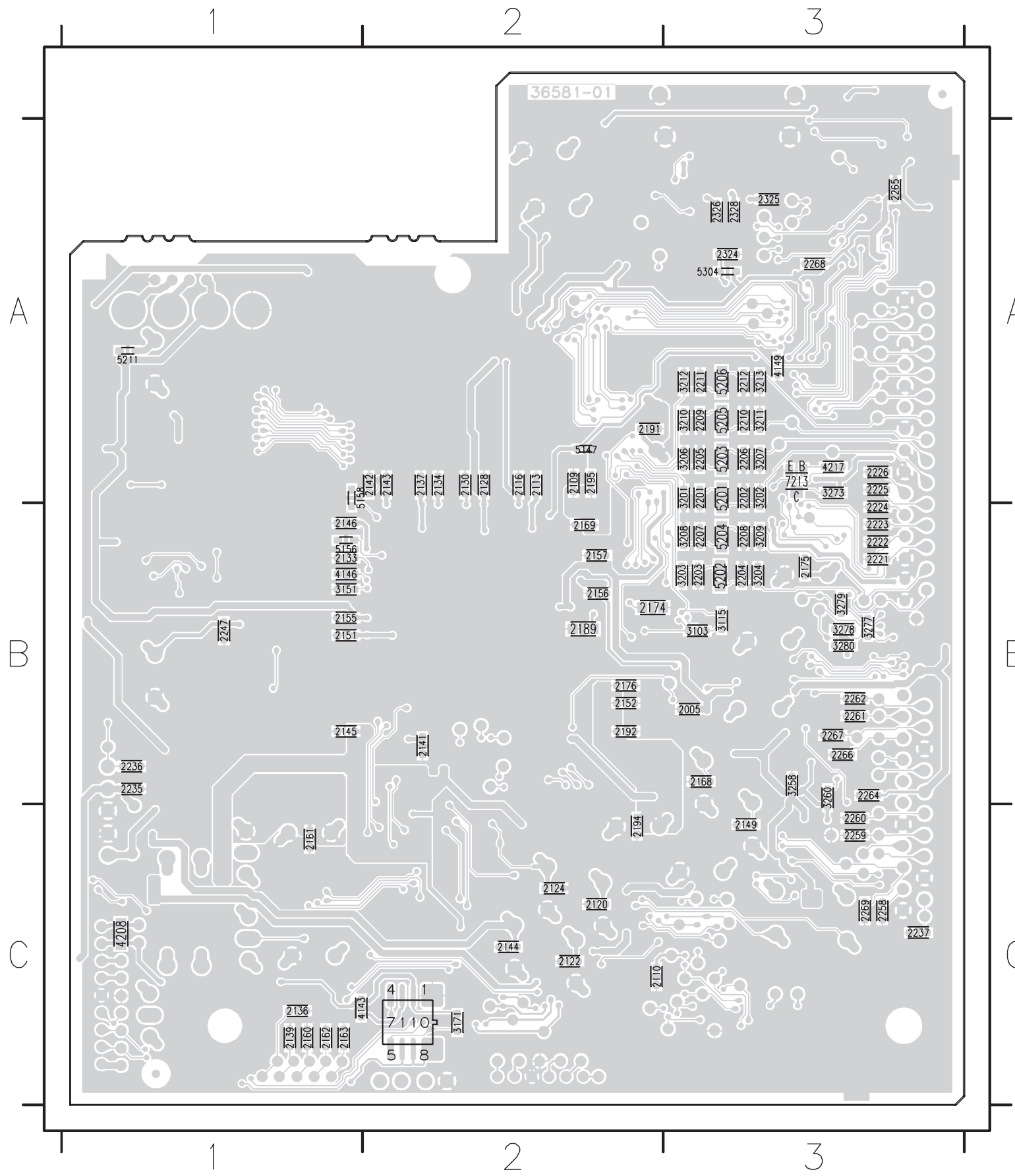
1101	C1	2178	B2	2323	A2	3160	C3	3254	A2	4129	C2	6104	C3
1102	C2	2179	B2	2327	A2	3161	B3	3255	B3	4130	C2	6105	C3
1103	C3	2180	B2	2329	A2	3162	B3	3256	A2	4131	C3	6106	B3
1104	A3	2181	B2	2330	A2	3163	B3	3257	B3	4132	C3	7101	A3
1105	C2	2182	B2	2331	A2	3164	B3	3259	A2	4133	C3	7104	C1
1106	C2	2183	B2	2332	A2	3165	B1	3261	A2	4134	C3	7105	C1
1201	A1	2184	A2	2333	A1	3166	B1	3262	A1	4135	B3	7106	C2
1202	A1	2185	C2	3101	B1	3168	B1	3263	A2	4136	B3	7107	C2
1203	B1	2186	C3	3102	B2	3169	C2	3264	B3	4137	B3	7108	B2
1204	C1	2187	C3	3104	B1	3170	C2	3265	C1	4138	C3	7109	C2
1205	C3	2188	C3	3105	B1	3172	C3	3266	B1	4139	C3	7111	C2
1206	C3	2190	A2	3106	B2	3173	B1	3267	B2	4142	B3	7112	C3
1207	C3	2193	B2	3107	B1	3174	B3	3268	A1	4144	B3	7113	C3
1208	C1	2196	B2	3108	B1	3175	B3	3269	A1	4145	C3	7114	A3
1301	A1	2197	B2	3109	B1	3176	B3	3270	A2	4147	C3	7115	B1
1302	A2	2198	B3	3110	B1	3177	B3	3271	C1	4148	B3	7116	B1
2001	B2	2199	C3	3111	B1	3178	A1	3272	A1	4201	C1	7117	B1
2002	C1	2213	A1	3112	B2	3179	A2	3274	A1	4202	C1	7118	C3
2003	A3	2214	A1	3113	B1	3180	A2	3275	B1	4203	C3	7119	C2
2004	B1	2215	A1	3114	B3	3181	A1	3276	B1	4204	C1	7201	A1
2101	B1	2216	A1	3116	B1	3182	C2	3281	A1	4205	C1	7203	A1
2102	B2	2217	A1	3117	B1	3183	B2	3301	A1	4206	C3	7204	A1
2103	B2	2218	A1	3118	B1	3184	C2	3302	A1	4207	C1	7205	B3
2104	B2	2219	A1	3119	B1	3205	C3	3303	A2	4209	C3	7206	A3
2105	C2	2220	A1	3120	B2	3214	A1	3304	A2	4210	B3	7207	B1
2106	C2	2227	C3	3121	B1	3215	A1	3305	A2	4211	C1	7208	C1
2107	C2	2228	C3	3122	B1	3216	A1	3306	A2	4212	C1	7209	C1
2108	C2	2229	C3	3123	C2	3217	A1	3307	A1	4213	A1	7210	B1
2111	C1	2230	C3	3124	C2	3218	A1	3308	A1	4214	A1	7211	B1
2112	C1	2231	C3	3125	C2	3219	A1	3309	A2	4215	A1	7212	C1
2114	C1	2232	C3	3126	C2	3220	A1	3310	A2	4216	B1	7214	A1
2115	C1	2234	C3	3127	A2	3221	A1	3311	A2	4218	A1	7301	A1
2117	C2	2238	A1	3128	A2	3222	A1	3312	A2	4301	A1	7302	A1
2118	B2	2239	A1	3129	A2	3223	A1	3313	A2	4302	A2	7303	A1
2119	C2	2240	B3	3130	C1	3224	A1	3314	A1	4303	A2	7304	A2
2121	C2	2241	A3	3131	C1	3225	A1	3316	A2	4304	A2	7305	A2
2123	C2	2242	B3	3132	C1	3228	A1	3317	A2	5139	B1	7307	A2
2125	B2	2243	A3	3133	C1	3229	A1	3318	A2	5141	B1	7308	A2
2126	B2	2244	B3	3134	C1	3230	A1	3319	A2	5142	B2	7309	A1
2127	C1	2245	A3	3135	B2	3231	A1	3320	A2	5143	B1	7310	A1
2129	C2	2246	A3	3136	C2	3232	A1	3321	A2	5144	B1		
2131	B2	2248	A3	3137	C2	3233	A2	3322	A2	5145	C3		
2132	C2	2249	A3	3138	C2	3234	A1	3323	A2	5148	C1		
2135	C2	2250	A1	3139	C2	3235	A2	3324	A2	5149	C3		
2138	C2	2251	A1	3140	C1	3236	A1	3325	A1	5151	C1		
2140	C2	2252	A1	3141	B3	3237	A2	3326	A2	5152	C1		
2147	B3	2253	A1	3143	C2	3238	A1	3327	A2	5153	C1		
2148	C2	2254	A1	3144	C2	3239	A2	3328	A2	5154	C2		
2150	C1	2255	A1	3145	C2	3240	A2	3329	A2	5155	B2		
2153	B1	2256	B1	3146	C2	3241	A2	3330	A2	5157	C2		
2154	B2	2257	C1	3147	C2	3242	A2	3331	A2	5159	B3		
2158	B3	2263	A1	3148	C2	3243	A1	3332	A2	5160	B2		
2159	A3	2301	A1	3149	C2	3244	A2	3333	A2	5207	A1		
2164	B1	2302	A1	3150	C2	3245	A1	3335	A2	5209	A1		
2165	B1	2303	A1	3152	A3	3246	A2	3336	A2	5210	A1		
2166	B2	2312	A1	3153	C3	3247	A1	3337	A2	5212	B3		
2167	B1	2313	A1	3154	C3	3248	A2	3338	A2	5303	A1		
2170	B1	2314	A1	3155	C2	3249	A2	3339	A1	5306	A2		
2171	B2	2315	A1	3156	B1	3250	A2	3340	A1	5307	A2		
2172	B1	2320	A2	3157	C3	3251	A2	4126	B2	5308	A2		
2173	B1	2321	A1	3158	C3	3252	A2	4127	C2	5309	A1		
2177	B1	2322	A1	3159	C3	3253	A2	4128	C2	5310	A1		



鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

MONO (DVM9.1) PWB (B)



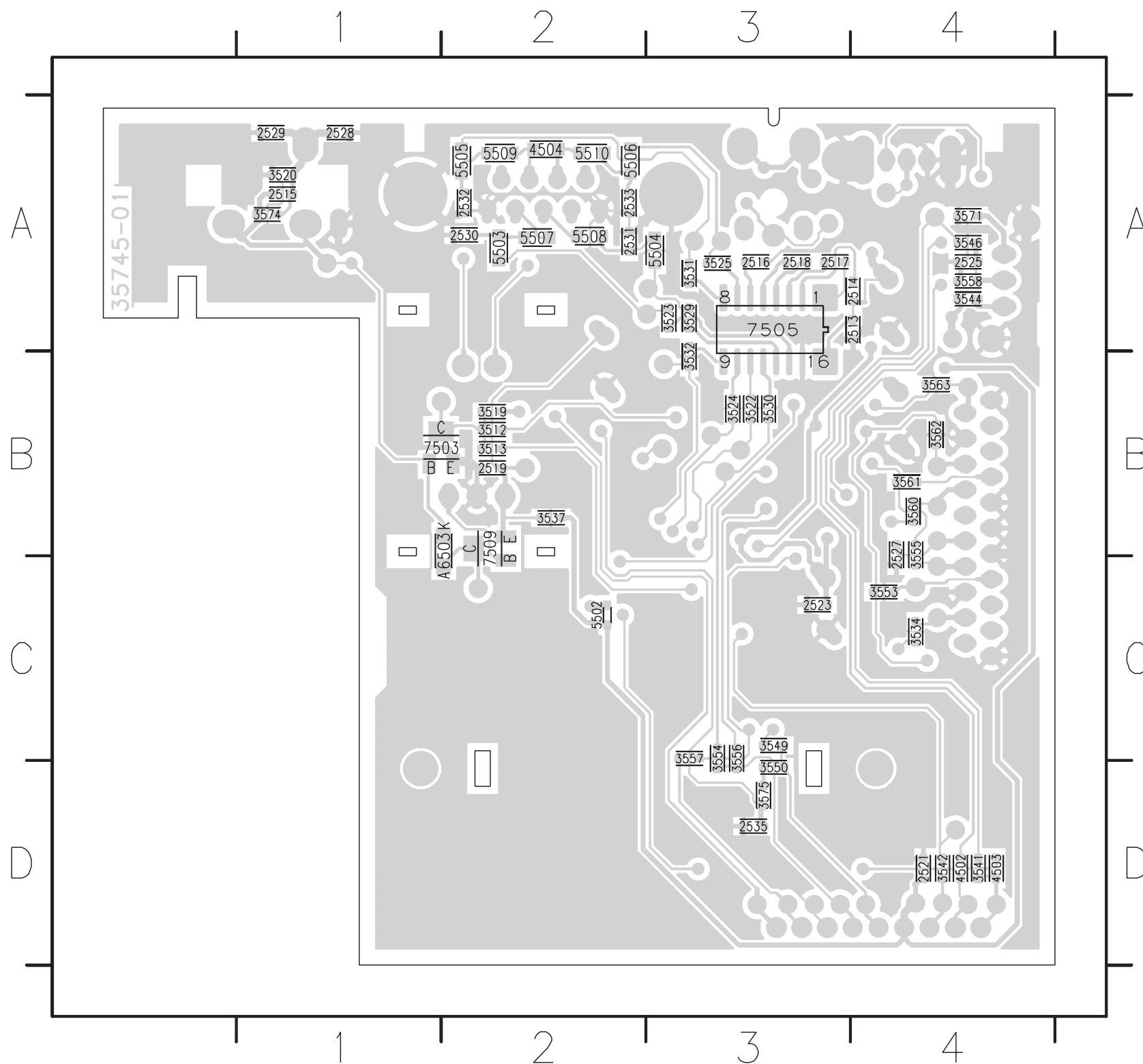
2005	B3	2247	B1
2109	A2	2258	C3
2110	C2	2259	C3
2113	A2	2260	C3
2116	A2	2261	B3
2120	C2	2262	B3
2122	C2	2264	B3
2124	C2	2265	A3
2128	A2	2266	B3
2130	A2	2267	B3
2133	B1	2268	A3
2134	A2	2269	C3
2136	C1	2324	A3
2137	A2	2325	A3
2139	C1	2326	A3
2141	B2	2328	A3
2142	A2	3103	B3
2143	A2	3115	B3
2144	C2	3151	B1
2145	B1	3171	C2
2146	B1	3201	A3
2149	C3	3202	A3
2151	B1	3203	B3
2152	B2	3204	B3
2155	B1	3206	A3
2156	B2	3207	A3
2157	B2	3208	B3
2160	C1	3209	B3
2161	C1	3210	A3
2162	C1	3211	A3
2163	C1	3212	A3
2168	B3	3213	A3
2169	B2	3258	B3
2174	B2	3260	B3
2175	B3	3273	A3
2176	B2	3277	B3
2189	B2	3278	B3
2191	A2	3279	B3
2192	B2	3280	B3
2194	C2	4143	C1
2195	A2	4146	B1
2201	A3	4149	A3
2202	A3	4208	C1
2203	B3	4217	A3
2204	B3	5147	A2
2205	A3	5156	B1
2206	A3	5158	A1
2207	B3	5201	A3
2208	B3	5202	B3
2209	A3	5203	A3
2210	A3	5204	B3
2211	A3	5205	A3
2212	A3	5206	A3
2221	B3	5211	A1
2222	B3	5304	A3
2223	B3	7110	C2
2224	B3	7213	A3
2225	A3		
2226	A3		
2235	B1		
2236	B1		
2237	C3		

鉛フリー半田
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Lead-free Solder
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RS232 PWB (A)

2513 A4	2527 B4	3519 B2	3534 C4	3555 B4	3575 D3	5508 A2
2514 A4	2528 A1	3520 A1	3537 B2	3556 C3	4502 D4	5509 A2
2515 A1	2529 A1	3522 B3	3541 D4	3557 C3	4503 D4	5510 A2
2516 A3	2530 A2	3523 A3	3542 D4	3558 A4	4504 A2	6503 B2
2517 A3	2531 A2	3524 B3	3544 A4	3560 B4	5502 C2	7503 B1
2518 A3	2532 A2	3525 A3	3546 A4	3561 B4	5503 A2	7505 A3
2519 B2	2533 A2	3529 A3	3549 C3	3562 B4	5504 A3	7509 B2
2521 D4	2535 D3	3530 B3	3550 D3	3563 B4	5505 A2	
2523 C3	3512 B2	3531 A3	3553 C4	3571 A4	5506 A2	
2525 A4	3513 B2	3532 B3	3554 C3	3574 A1	5507 A2	

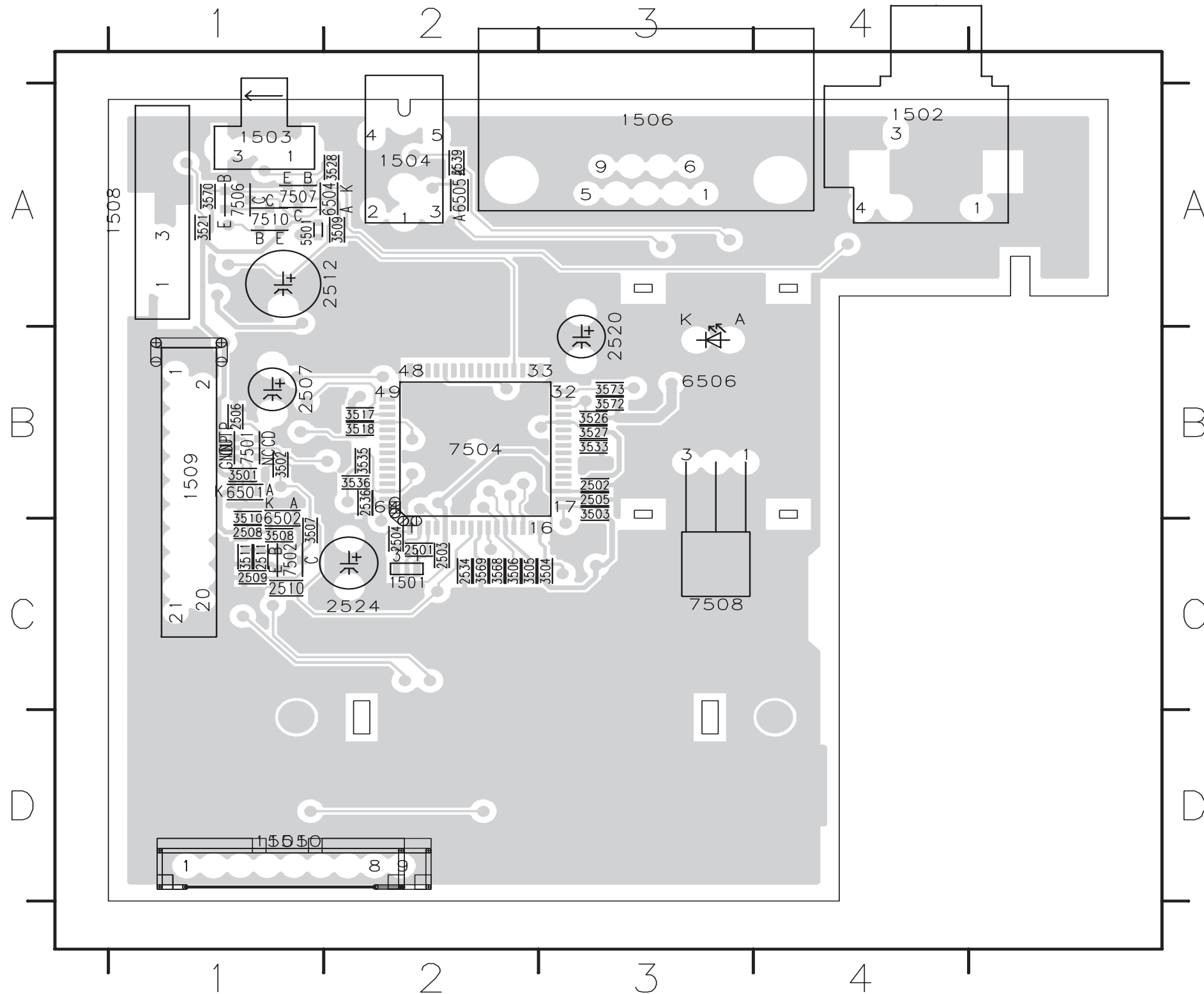


鉛フリー半田
半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。

Lead-free Solder
When soldering, use the Lead-free Solder (Sn-Ag-Cu).

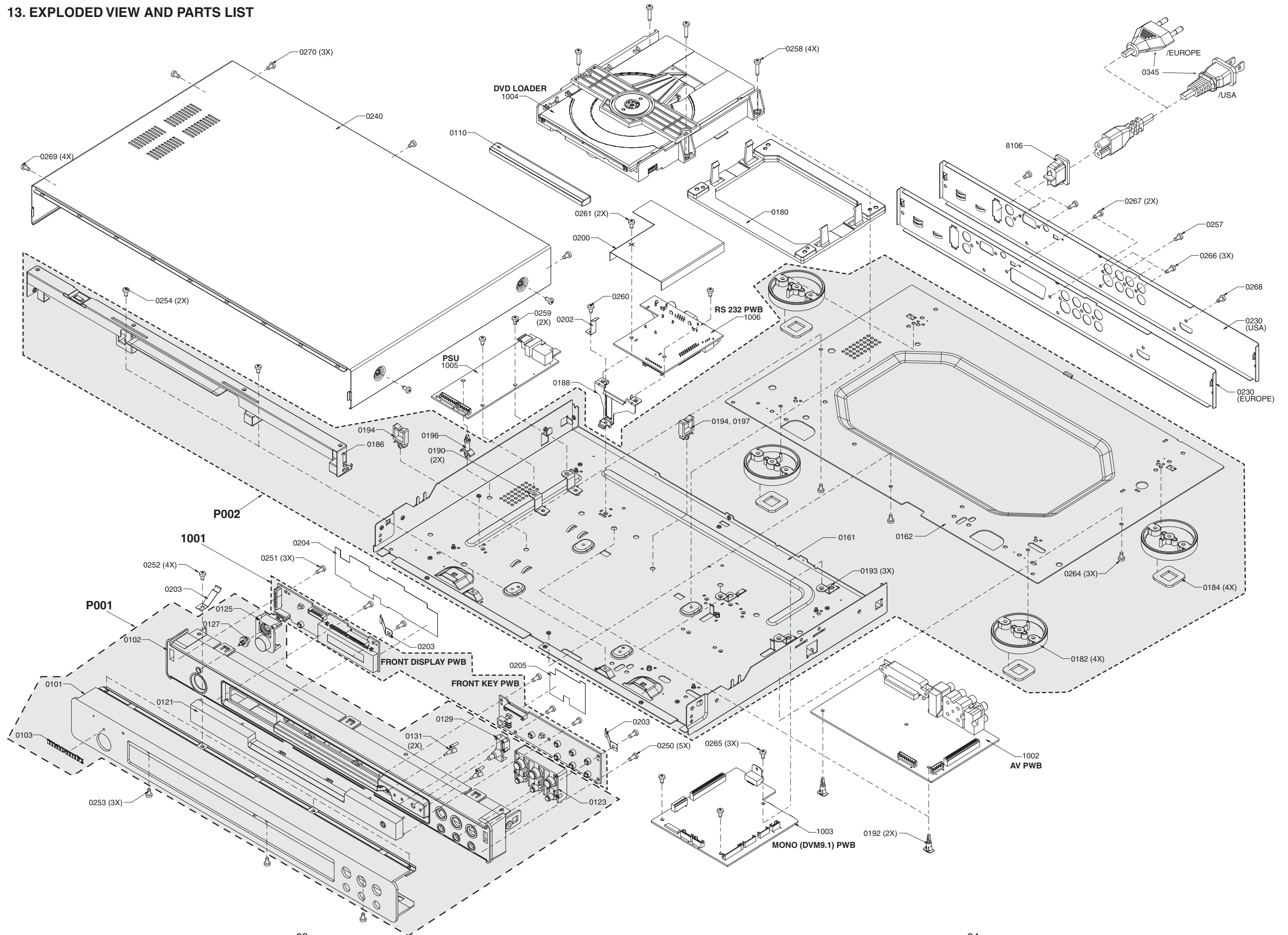
RS232 PWB (B)

1501	C2	2502	B3	2512	A2	3506	C2	3527	B3	3573	B3	7506	A1
1502	A4	2503	C2	2520	B3	3507	C1	3528	A2	5501	A1	7507	A1
1503	A1	2504	C2	2524	C2	3508	C1	3533	B3	6501	B1	7508	C3
1504	A2	2505	B3	2534	C2	3509	A2	3535	B2	6502	B1	7510	A1
1505	D1	2506	B1	2536	B2	3510	B1	3536	B2	6504	A2		
1506	A3	2507	B1	3501	B1	3511	C1	3539	A2	6505	A2		
1508	A1	2508	C1	3502	B1	3517	B2	3568	C2	6506	B3		
1509	B1	2509	C1	3503	B3	3518	B2	3569	C2	7501	B1		
1510	D1	2510	C1	3504	C3	3521	A1	3570	A1	7502	C1		
2501	C2	2511	C1	3505	C2	3526	B3	3572	B3	7504	B2		



鉛フリー半田
 半田付けには、鉛フリー半田 (Sn-Ag-Cu) を使用してください。
Lead-free Solder
 When soldering, use the Lead-free Solder (Sn-Ag-Cu).

13. EXPLODED VIEW AND PARTS LIST



P.W.B. NAME	POS. NO.	VERS. COLOR	PART NO. (FOR EUR)	PART NO. (MZ)	PART NAME	DESCRIPTION	
	P001	/N1B	00M20CW248510	00M20CW248510	FRONT ASSY	CAB FRONT ASSY MDVS4001B	3141 079 40751
	P001	/N1S	00M20CW248530	00M20CW248530	FRONT ASSY	CAB FRONT ASSY MDVS4001S	3141 079 40741
	P001	/U1B	nsp	00M20CW248510	FRONT ASSY	CAB FRONT ASSY MDVS4001B	3141 079 40751
	P002	/N1B	nsp	nsp	CHASSIS	FRAME ASSY MDVS4001	3141 079 40731
	P002	/N1S	nsp	nsp	CHASSIS	FRAME ASSY MDVS4001S	3141 079 40761
	P002	/U1B	nsp	nsp	CHASSIS	FRAME ASSY MDVS4001	3141 079 40731
	0110	/N1B	00M20CW063010	00M20CW063010	ESCUTCHEON	COVER TRAY MDVS4001 BL	3139 244 13711
	0110	/N1S	00M20CW063210	00M20CW063210	ESCUTCHEON	COVER TRAY MDVS4001 SI	3139 244 13611
	0110	/U1B	nsp	00M20CW063010	ESCUTCHEON	COVER TRAY MDVS4001 BL	3139 244 13711
	0180		nsp	nsp	BRACKET	BRACKET LOADER MDVS4001	3139 244 13651
	0188		nsp	nsp	BRACKET	BRACKET RS232 MDVS4001	3139 241 25261
	0200		nsp	nsp	SHEET	CUTSHEET RS232 MDVS4001	3139 243 20671
	0202		nsp	nsp	SPRING	EMC SPRING	3139 241 00042
	0203		nsp	nsp	SPRING	ESD SPRING MDVS4001	3139 241 26131
	0230	/N1B	nsp	nsp	PANEL	PLATE REAR MDVS4001/12	3139 241 25301
	0230	/N1S	nsp	nsp	PANEL	PLATE REAR MDVS4001/12	3139 241 25301
	0230	/U1B	nsp	nsp	PANEL	PLATE REAR MDVS4001/37	3139 241 25501
	1001		90M-ZZ003770R	90M-ZZ003770R	PWB ASSY	PCBAS PANEL FRONT DV4001	3139 248 50701
	1002	/N1B	90M-ZZ003780R	90M-ZZ003780R	PWB ASSY	PCBAS MEM AV DV4001 EU	3139 248 50761
	1002	/N1S	90M-ZZ003780R	90M-ZZ003780R	PWB ASSY	PCBAS MEM AV DV4001 EU	3139 248 50761
	1002	/U1B	nsp	90M-ZZ003790R	PWB ASSY	PCBAS MEM AV DV4001	3139 248 50751
	1003		90M-ZZ003800R	90M-ZZ003800R	PWB ASSY	PCBAS MEM DVM9.1 DV4001	3139 248 50731
	1004		00MZK20CW0020	00MZK20CW0020	MECHANISM	LOADER ASSY WXD8829 KHM313 RX	3139 248 00181
	1005		90M-ZZ003810R	90M-ZZ003810R	PWB ASSY	PSU DV4001 06P15 WR SRV2016WW	3139 247 13351
	1006		90M-ZZ003820R	90M-ZZ003820R	PWB ASSY	PCBAS MEM RS232 DV4001	3139 248 50741
	8100		nsp	90M-YU002470R	FPC	FFC FOIL 30P/060/30P AD	3139 241 02491
	8101		nsp	nsp	CORD	CBLE MIS 05P/220/05P MIS 26OS	3139 111 03091
	8102		nsp	nsp	CORD	CBLE MIS 08P/340/08P MIS 26OS	3139 111 01821
	8103		nsp	nsp	CORD	CBLE PH 09P/560/09P PH 26ST BK	3139 241 02871
	8104		nsp	90M-YU002480R	FPC	FFC FOIL 21P/280/21P AD FOLD	3139 241 02312
	8105		nsp	nsp	CORD	CBLE PH 12P/300/12P PH 26ST	3139 241 03041
	▲ 8106	/N1B	90M-YT005160R	90M-YT005160R	TERMINAL	CBLE MAINS ASSY 140MM EU	3139 241 03121
	▲ 8106	/N1S	90M-YT005160R	90M-YT005160R	TERMINAL	CBLE MAINS ASSY 140MM EU	3139 241 03121
	▲ 8106	/U1B	nsp	90M-YT005170R	TERMINAL	CBLE MAINS ASSY 140MM	3139 241 01731
PACKING							
	0360	/N1B	00M20CW851310	00M20CW851310	USER GUIDE	USER MANUAL MDVS4001/12	3139 245 21351
	0360	/N1S	00M20CW851310	00M20CW851310	USER GUIDE	USER MANUAL MDVS4001/12	3139 245 21351
	0360	/U1B	nsp	00M20CW851250	USER GUIDE	USER MANUAL MDVS4001/37	3139 245 21341
	0341		00MZK20CW0010	00MZK20CW0010	UNIT KIT	REMOTE CONTR RC-001DV B	2422 549 01284
	▲ 0345	/N1B	90M-ZC000610R	90M-ZC000610R	MAINS CORD	MAINS CORD EUR 2A5 1M5 DET 2P B	2422 070 98151
	▲ 0345	/N1S	90M-ZC000610R	90M-ZC000610R	MAINS CORD	MAINS CORD EUR 2A5 1M5 DET 2P B	2422 070 98151
	▲ 0345	/U1B	nsp	90M-ZC000620R	MAINS CORD	MAINS CORD UL 7A 1M5 DET 2P B	2422 070 00106
NOT STANDARD SPARE PART							
	0661		nsp	00M20CW801010	PACKING CASE	PLATE CARTON 117 X 249	3139 246 28311
	0662		nsp	00M20CW809010	CUSHION	BUFFER LEFT MDVS4001	3139 246 27961
	0663		nsp	00M20CW809020	CUSHION	BUFFER RIGHT MDVS4001	3139 246 28231
	0240	/N1B	nsp	00M20CW257010	LID	COVER TOP MDVS4001 BL	3139 241 25291
	0240	/N1S	nsp	00M20CW257210	LID	COVER TOP MDVS4001 SI	3139 241 25511
	0240	/U1B	nsp	00M20CW257010	LID	COVER TOP MDVS4001 BL	3139 241 25291
	0350		nsp	90M-ZD000610R	CONN. CORD	CBLE CINCH 1M5 CINCH RDYEWB B	2422 076 00718
	0353		nsp	90M-ZD000620R	CONN. CORD	CBLE CINCH 1M5 CINCH 1P OG B	2422 076 00855

NOTE : *nsp* PART IS LISTED FOR REFERENCE ONLY, MARANTZ WILL NOT SUPPLY THESE PARTS.